col	cey	chl	key	Soil Texture		Confining layer	XKSAT
1507989	652686			very gravelly sand	GRV-S	- Comming layer	7410711
1507992	652689			very gravelly loam	GRV-L	GRV-L	0.25
1507992	652689			very gravelly loam	GRV-L	GIV-L	0.23
1507992	652689	1507992		very gravelly clay loam	GRV-CL		
1507992	652689	1507992		very gravelly loam	GRV-L		
1507992	652689			indurated	IND		
1507995	652692	1507995		extremely cobbly coarse sandy toam	CBX-COSL	CBX-COSL	0.4
1507995	652692	1507995		gravelly coarse sandy loam	GR-COSL	00% 0002	0.4
1507995	652692	1507995		weathered bedrock	WB		
1507995	652692	1507995		unweathered bedrock	UWB		
1507995	652693	1507995		extremely gravelly sandy loam	GRX-SL	GRV-CL	0.04
1507995	652693	1507995		very gravelly clay loam	GRV-CL	0711 02	0.01
1507995	652693	1507995		gravelly clay	GR-C		
1507995	652693	1507995		weathered bedrock	WB		
1507995	652693	1507995		unweathered bedrock	UWB		
1507997	652697	1507997		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
1507997	652697	1507997		gravelly coarse sandy loam	GR-COSL	GIV-OF	V. 4
1507997	652697	1507997		weathered bedrock	WB		
1507997	652697	1507997		unweathered bedrock	UWB		
755744	1117678	755744		gravelly sandy loam	GR-SL	GR-SCL	0.04
755744		755744		gravelly sandy clay loam	GR-SCL	GK-SCL	, 0.04
755744		755744		gravelly sandy clay loam			
755744	1117678	755744		very gravelly coarse sandy loam	GR-SCL		
755744	1117678	755744		extremely gravelly sandy loam	GRV-COSL		
755744	1117678	755744		very gravelly loamy coarse sand	GRX-SL		
755744	1117679	755744			GRV-LCOS	01	- 0.4
755744	1117679	755744		gravelly sandy loam	GR-SL	SL	0.4
755744	1117679	755744		sandy loam sandy loam	SL	<u> </u>	
755744	1117679				SL CI	}	
755744	1117679	755744 755744		sandy loam fine sandy loam	SL		
755805					FSL	00.00	
	1117734	755805		gravelly sandy loam	GR-SL	GR-SCL	0.04
755805 755805	1117734	755805		gravelly sandy clay loam	GR-SCL		
		755805		clay loam	CL		
755805		755805		ciay loam	CL	ļļ.	
	1117734	755805		unweathered bedrock	UWB		<u>.</u>
	1117735	755805		gravelly sandy loam	GR-SL	GRV-SCL	0.06
755805		755805		very gravelly sandy clay loam	GRV-SCL		
755805		755805		very cobbly sandy clay loam	CBV-SCL		·····
755805	1117735	755805		weathered bedrock	WB		
755852	1117781	755852		sandy loam	\$L	L	0.25
755852	1117781	755852	3187503		L		
755852	1117781	755852	3187504		L		
755852	1117781	755852	3187478		L		
755852	1117781	755852	3187505		L		
755718	1118760	755718		gravelly sandy loam	GR-SL	GR-SL	0.4
755718	1118760	755718		very gravelly sandy loam	GRV-SL		
755718		755718		very gravelly sandy loam	GRV-SL		
	1118760	755718		very gravelly sandy loam	GRV-SL		
	1118760	755718		sandy loam	SL		
755718		755718		indurated	IND		
755718	1118761	755718	3359017	very cobbly sandy loam	CBV-SL	CBV-SL	0.15

		cey	Soil Texture		Confining layer	XKSAT
1118761	755718	3359016	very cobbly sandy loam	CBV-SL	g . , .	
						w
1118761						
1144685					SCI	0.06
1144685					332	0.00
1144685				-		
1144685	755852			 		
1150262				 	GR-SL	0.4
1150262					91.02	
1150262	798413				•	
1150263					SICI	0.04
					0,02	0.01
1150263	798403			-		
					CBX-SI	0.4
					OD/I-OL	V. T
					GRX-I	0.25
					GIVE	0.20
					GRY-SI	0.4
					GIVI-OL	0.4
					GRX-SCI	0.06
					GIVI-GCL	0.00
				1	GPV SI	0.4
					GIV-JL	0.4

					CBV SI	0.4
					OUA-9F	0.4
- ;						
					CDV SI	0.4
					GLV-9F	0.4
					CDV CC	0.00
					GKV-SUL	0.06
	-			1		
					CL	0.04
			· · · · · · · · · · · · · · · · · · ·			
1152315						
	798442	<i>ა</i> ე4ე355	very gravelly clay loam	GRV-CL		
	1118761 1118761 1114685 1144685 1144685 1144685 1144685 1144685 1150262 1150262 1150262 1150263 1150263 1150263 1150263 1150263 1150263 1150263 1152141 1152141 1152141 1152141 1152201 1152201 1152208 1152208 1152208 1152208 1152210 1152210 1152210 1152211 1152211 1152211 1152211 1152211 1152211	1118761 755718 1118761 755718 1144685 755852 1144685 755852 1144685 755852 1144685 755852 1144685 755852 1150262 798413 1150262 798413 1150262 798413 1150263 798403 1150263 798403 1150263 798403 1150263 798403 1150263 798403 1150263 798403 1150263 798403 1150263 798403 1150263 798403 1152141 798418 1152141 798418 1152201 798404 1152201 798404 1152201 798404 1152202 798419 1152208 798419 1152208 798419 1152210 798444 1152211 798444 1152211 798444	1118761 755718 3359015 1118761 755718 3560040 1144685 755852 3362832 1144685 755852 3362835 1144685 755852 3362836 1144685 755852 3362836 1144685 755852 3362837 1150262 798413 3533648 1150262 798413 3533666 1150262 798413 3533666 1150263 798403 3807699 1150263 798403 3879948 1150263 798403 3492952 1150263 798403 3492950 1152141 798418 3533885 1152141 798418 3533885 1152141 798418 3569011 1152201 798404 3806546 1152201 798404 3806546 1152201 798404 3806501 1152201 798404 3560051 1152208 798419 3445233 <td>1118761 755718 3359015 very cobbly sandy loam 1118761 755718 3560040 indurated 1144685 755852 3362832 sandy loam 1144685 755852 3362835 sandy loam 1144685 755852 3362835 sandy loam 1144685 755852 3362836 gravelly sandy loam 1150262 798413 3533648 gravelly sandy loam 1150262 798413 3533668 gravelly sandy loam 1150262 798413 3533668 gravelly sandy loam 1150263 798403 3533667 gravelly sandy loam 1150263 798403 3807699 slity clay loam 1150263 798403 3492951 slitt clay loam 1150263 798403 3492955 slity clay loam 1150263 798403 3492955 slity clay loam 1152241 798418 3533890 extremely cabbly sandy loam 1152214 798418 3533890 extremely gravelly sandy loam <!--</td--><td> 1118761 755718 3359015 very cobbly sandy loam CBV-SL 1118761 755718 3560040 indurated IND IN</td><td> 1118761</td></td>	1118761 755718 3359015 very cobbly sandy loam 1118761 755718 3560040 indurated 1144685 755852 3362832 sandy loam 1144685 755852 3362835 sandy loam 1144685 755852 3362835 sandy loam 1144685 755852 3362836 gravelly sandy loam 1150262 798413 3533648 gravelly sandy loam 1150262 798413 3533668 gravelly sandy loam 1150262 798413 3533668 gravelly sandy loam 1150263 798403 3533667 gravelly sandy loam 1150263 798403 3807699 slity clay loam 1150263 798403 3492951 slitt clay loam 1150263 798403 3492955 slity clay loam 1150263 798403 3492955 slity clay loam 1152241 798418 3533890 extremely cabbly sandy loam 1152214 798418 3533890 extremely gravelly sandy loam </td <td> 1118761 755718 3359015 very cobbly sandy loam CBV-SL 1118761 755718 3560040 indurated IND IN</td> <td> 1118761</td>	1118761 755718 3359015 very cobbly sandy loam CBV-SL 1118761 755718 3560040 indurated IND IN	1118761

col	key	chi	key	Soil Texture		Confining layer	XKSAT
798442	1152315	798442		indurated	IND	Community tayor	AINOAT
798356		798356		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798356		798356		very gravelly sandy loam	GRV-SL	GIVA-3L	0.4
798356		798356		extremely gravelly sandy loam	GRX-SL		
798356		798356		gravelly sandy loam	GR-SL	GR-SL	0.4
798356		798356		extremely gravelly sandy loam	GRX-SL	GN-GL	0.4
798356	1152318	798356		very gravelly sandy loam	GRV-SL		
798356		798356		gravelly loamy sand	GR-L\$	GR-LS	1.2
798356	1152319	798356		extremely gravelly coarse sand	GRX-COS	GR-LO	1.2
798356		798356		extremely gravelly loamy coarse sand	GRX-LCOS		
755184	1152645	755184		very cobbly sandy loam	CBV-SL	CBV-CL	0.04
755184	1152645	755184		very cobbly day loam		CBV-CL	0.04
755184	1152645	755184		very gravelly sandy clay loam	CBV-CL		
755184	1152645	755184		very gravelly sandy clay loam	GRV-SCL		
755184	1152645	755184		very gravelly coarse sandy loam	GRV-SCL		
755184	1152645	755184		sandy clay loam	GRV-COSL		
798400	1156871	798400		extremely cobbly sandy loam	SCL	ODV O	0.1
798400	1156871	798400			CBX-SL	CBX-SL	0.4
798400	1156871	798400		extremely cobbly sandy loam unweathered bedrock	CBX-SL	<u> </u>	
798395	1156874	798395			UWB	511101	
798395	1156874	798395		very flaggy sandy loam	FLV-SL	FLV-SL	0.4
798395	1156874	798395		very flaggy sandy loam unweathered bedrock	FLV-SL		
798355		798355			UWB		4.0
798355	1156979	798355		gravelly loamy sand	GR-LS	GR-LS	1.2
798355	1156979			extremely gravelly coarse sand	GRX-COS		
798394	1156980	798355		extremely gravelly loamy coarse sand	GRX-LCOS		<u>-</u>
798394	1156980	798394		gravelly sandy loam	GR-SL	GR-SL	0.4
798394		798394		loamy coarse sand	LCOS		
798397	1156980	798394		extremely gravelly loamy coarse sand	GRX-LCOS		
	1156981	798397		gravelly loamy sand	GR-LS	GR-LS	1.2
798397	1156981	798397		gravelly loamy sand	GR-LS		••••
798397	1156981	798397		extremely gravelly sand	GRX-S		
798375	1156982	798375		extremely gravelly sand	GRX-S	GRX-S	4.6
798359	1156998	798359		very stony sandy loam	STV-SL	STV-SL	0.4
798359	1156998	798359		very gravelly sandy loam	GRV-SL		
798359	1156998	798359		extremely gravelly sandy clay loam	GRX-SCL		
798359	1156998	798359		extremely gravelly coarse sandy loarn	GRX-COSL		
798371	1156999	798371		very gravelly sandy clay loam	GRV-SCL	GRV-SCL	0.06
798371	1156999	798371		extremely gravelly sandy clay loam	GRX-SCL		
798371	1156999	798371		extremely gravelly coarse sandy loam	GRX-COSL		
798371	1156999	798371		very gravelly sandy clay loam	GRV-SCL		
798360	1157000	798360	3537205		L L	GR-SCL	0.04
798360	1157000	798360		gravelly sandy clay loam	GR-SCL		
798360	1157000	798360		gravelly sandy clay loam	GR-SCL		
798360	1157000	798360		very gravelly sandy clay loam	GRV-SCL		
798364	1157005	798364		gravelly loamy sand	GR-LS	GR-LS	1.2
798364	1157005	798364		very gravelly loamy coarse sand	GRV-LCOS		-
798364	1157005	798364		gravelly loamy sand	GR-LS		
798364	1157005	798364		extremely gravelly loamy sand	GRX-LS		
798365	1157006	798365		extremely gravelly loarny sand	GRX-LS	GRX-LS	1.2
798365	1157006	798365		extremely gravelly loarny sand	GRX-LS		
798365	1157006	798365	3453205	extremely gravelly sand	GRX-S		

798424 1157008 798424 3551200 obtemby gravelly sandy loam GRX-SL GRX-SL O.4 798424 1157008 798424 3551200 obtemby gravelly loamy sand GRX-LS O.4 798424 1157008 798426 3551268 obtemby gravelly loamy sand GRX-LS GRX-SL O.4 798424 1157008 798426 3551268 obtemby gravelly loamy sand GRX-LS O.4 798436 1157010 798303 3551268 obtemby gravelly loamy sand GRX-SL GRX-SL O.4 798303 1157010 798303 3551268 obtemby gravelly loamy sand GRX-SL GRX-SL O.4 798303 1157017 798309 354003 very stony sandy loam GRX-SL GRX-SL O.4 798300 1157019 798309 354003 very stony sandy loam GRX-SL GRX-SL O.6 798300 1157019 798309 3540030 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157019 798309 3540030 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157010 798309 3540030 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157020 798302 3400370 very gravelly sandy loam GRX-SL GRX-CL O.6 798302 1157020 798302 3400370 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157020 798302 3500007 ndurated IND GRX-GRX-GRX-GRX-GRX-GRX-GRX-GRX-GRX-GRX-	col	key	chi	key	Soil Texture		Confining layer	XKSAT
1799424 1157000 798424 3551256 bottomely gravelly loamy sand GRX-LS	 					CRY-SI		
1798424 1157008 798424 3551252 outromely gravelly loamy sand GRX-SL GRX-SL O. 4 798363 1157010 798363 3551262 outromely gravelly loamy sand GRX-SL GRX-SL O. 4 798363 1157010 798363 3551262 outromely gravelly loamy sand GRX-SL GRX-SL O. 6 798369 1157019 798369 3541680 very story sandy loam STV-SL STV-SCL O. 06 798369 1157019 798369 3541680 very story sandy loam STV-SL STV-SCL O. 06 798369 1157019 798369 3541680 very story sandy loam STV-SL STV-SCL O. 06 798369 1157019 798369 3546080 very story stardy STV-C O. 04 798369 1157019 798369 3546080 very story stardy STV-C O. 04 798362 1157020 798382 3490371 very gravelly sandy loam GRX-CL GRX-CL O. 04 798382 1157020 798382 3490371 very gravelly sandy loam GRX-CL O. 04 GRX-CL O. 04 GRX-CL O. 05 GRX-CL O	J						GIV-3L	0.4
1798363 1157010 798363 3851262 extremely gravelly sandy loam GRX-LS GRX-SL 0.4) .							
798363 1157010 798369 3551268 edemely gravelly loamy sand GRX-LS 798369 1157019 798369 354083 very story sandy loam STV-SL 0.06 798369 1157019 798369 3540804 very story sandy loap STV-C 798369 1157019 798369 3550005 InDD D 1798382 1157020 798382 3490371 very gravelly sandy loam GRX-CL 0.04 798382 1157020 798382 3490371 very gravelly sandy loam GRX-CL 0.04 798382 1157020 798382 3490387 very gravelly sandy loam GRX-CL 0.04 798382 1157020 798382 35900071 Industed IND IND 798382 1157020 798382 3490380 very story sandy loam GRX-CL 0.04 798382 1157020 798382 3545659 98496562 very story sandy loam GRX-SL STV-SL 0.4 798376 1157021 798383 3545659 </td <td>l</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>GRX-SI</td> <td>0.4</td>	l						GRX-SI	0.4
198369 1157019 798369 3348036 very storry sandy loarn	798363					1	Grotton	ŲT
T98309 1157019 798309 3546188 very storry sandy clay STV-C	H						STV-SCL	0.06
P88369 1157019 798369 3546005 indurated IND	798369						01.002	0.00
798388 1157019 798389 3560005 Indurated IND	798369							
798382 1157020 798382 3490371 very gravelly sandy loam GRV-SL GRX-CL 0.04	798369					·		
798382 1157020 798382 3490370 extremely gravelly clay loam GRX-CL	798382	-	•			}	GRX-CL	0.04
798382 1157020 798382 3490369 ever story clay STV-C 798382 1157020 798382 3490369 ever story clay STV-C 798389 1157020 798382 3590007 indurated IND 798359 1157021 798359 3545659 gravelly sandy loam GR-SL 798359 1157021 798359 3545659 ever gravelly sandy loam GRV-SL 798376 1157021 798359 3545659 ever gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 ever gravelly sandy loam GRV-SL GRV-SL 798502 1157450 798502 3545828 ever gravelly sandy loam GRV-SL GRV-SL 798502 1157450 798502 3545828 ever gravelly sandy loam GRV-SL GRV-SL 798502 1157450 798502 3545828 ever gravelly sandy loam GRV-SL GRV-SL 798446 1157450 798502 3545828 ever gravelly sandy loam GRV-SL L 798446 1157450 798502 3545828 ever gravelly sandy loam GRV	798382		798382					
T98382	798382							
798382 1157020 798382 3560007 indurated IND 798359 1157021 798359 3545689 gavely sandy loam GR-SL 798359 1157021 798359 3545689 gavely sandy loam GRV-SL 798376 1157021 798376 3440314 very gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798646 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798446 1157451 798446 3454580 loam L 798446 1157451 798446 3546138 joan L 798446 1157452 798446 3546131	798382							
798359 1157021 798359 3545652 very stony sandy loam STV-SL STV-SL 0.4 798359 1157021 798359 3545659 gravelly sandy loam GR.S.L 798376 798376 1157028 798376 3440314 very gravelly sandy loam GRV-SL 0.4 798376 1157028 798373 3440315 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545822 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545822 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545822 very gravelly sandy loam GRV-SL 0.4 798446 1157450 798502 3545820 very gravelly sandy loam GR-SL 0.25 798446 1157451 798446 3454891 gravelly sandy loam GR-SL L 0.25 798446 1157451 798446 3546135 gravelly sandy loam GR-SL	798382							
798359 1157021 798359 3545658 gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798440 1157450 798502 3545826 very gravelly sandy loam GR-SL 798440 1157451 798446 3454581 gravelly sandy loam GR-SL L 798440 1157451 798446 3560004 indurated iND 798446 1157452 798446 3564138 loam L 798446 1157452 <td< td=""><td>798359</td><td></td><td></td><td>3545652</td><td>very stony sandy loam</td><td></td><td>STV-SL</td><td>0.4</td></td<>	798359			3545652	very stony sandy loam		STV-SL	0.4
798359 1157021 798356 3845659 very gravelly sandy loam GRV-SL 0.4 798376 1157028 798376 3440314 very gravelly sandy loam GRV-SL 0.4 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GR-SL 0.2 798446 1157451 798446 3454581 gravelly sandy loam GR-SL 0.25 798446 1157451 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546135 gravelly sandy loam GR-SL L			798359		the state of the s			- •••
798376 1157028 798376 3440314 very gravelly sandy loam GRV-SL QRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798446 1157451 798446 3454580 loam GR-SL 798446 1157451 798446 3454580 loam L 798446 1157451 798446 3454580 loam L 798446 1157451 798446 3550004 indurated iND 798446 1157452 798446 356138 loam L 798446 1157452 798446 356138 loam L 798446 1157452 798446 356138 loam L 798446 1157452 798446 3660138 loam L <td>798359</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	798359							
798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798446 1157450 798502 3545826 very gravelly sandy loam GR-SL 798446 1157451 798446 3454580 gravelly sandy loam GR-SL 798446 1157451 798446 354580 gravelly sandy loam GR-SL 798446 1157451 798446 3546139 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546139 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546137 loam L U 0.25 798446 1157452 798446 3546139 loa	-				· · · · · · · · · · · · · · · · · · ·		GRV-SL	0.4
798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798446 1157450 798502 3545826 very gravelly sandy loam GRV-SL 798446 1157451 798446 3454581 gravelly sandy loam GR-SL L 0.25 798446 1157451 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157451 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546135 gravelly sandy loam L U 0.25 798446 1157452 798446 3546135 loam L U 0.25 798486 1157452 798446 3560003 indurated IND IND IND 0.4	1							•••
798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798502 1157450 798502 3814936 gravelly sandy loam GR-SL 798502 1157450 798502 3545826 very gravelly sandy loam GRV-SL 798446 1157451 798446 3454580 loam L 798446 1157451 798446 3560004 indurated IND 798446 1157451 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546135 loam L L 0.25 798446 1157452 798446 3546145 loam L U 0.4 798446 1157452 798486 3545126 gravelly sandy loam GR-SL SL 0.4 798388 1157453 798388 3547535 sandy lo	798502			***			GRV-SL	0.4
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798391 1157455 798391 3547660 gravelly sandy clay loam GR-SCL 798391 1157455 798391 3547661 gravelly sandy loam GR-SL 798391 1157455 798391 3547662 very gravelly loamy sand GRV-LS 798391 1157456 798391 3547998 gravelly sandy loam GR-SL GR-SL 798391 1157456 798391 3547997 gravelly sandy loam GR-SL GR-SL 798390 1157457 798390 3491502 gravelly sandy loam GR-SL 0.4 798390 1157457 798390 3491504 gravelly sandy loam GR-SL GR-SL 798390 1157457 798390 3491505 gravelly sandy loam GR-SL GR-SL 798371 1157458 798371 3440260 very gravelly sandy loam GR-SL GRV-SL GRV-SL 0.4	798391		798391					•
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798391 1157455 798391 3547662 very gravelly loamy sand GRV-LS 798391 1157456 798391 3547998 gravelly sandy loam GR-SL GR-SL 798391 1157456 798391 3547997 gravelly sandy loam GR-SL GR-SL 798390 1157457 798390 3491502 gravelly sandy loam GR-SL 0.4 798390 1157457 798390 3491503 gravelly sandy loam GR-SL GR-SL 798390 1157457 798390 3491504 gravelly sandy loam GR-SL GR-SL 798371 1157458 798371 3440260 very gravelly sandy loam GRV-SL GRV-SL O.4	798391		798391					
798391 1157456 798391 3547998 gravelly sandy loam GR-SL GR-SL 0.4 798391 1157456 798391 3547997 gravelly sandy loam GR-SL GR-SL 0.4 798390 1157457 798390 3491502 gravelly sandy loam GR-SL 0.4 798390 1157457 798390 3491503 gravelly sandy loam GR-SL 0.4 798390 1157457 798390 3491504 gravelly sandy loam GR-SL 0.4 798371 1157458 798371 3440260 very gravelly sandy loam GRV-SL GRV-SL 0.4	798391	1157455	798391					
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798390 1157457 798390 3491502 gravelly sandy loam GR-SL GR-SL 0.4 798390 1157457 798390 3491503 gravelly sandy loam GR-SL GR-SL 798390 1157457 798390 3491504 gravelly sandy loam GR-SL 798390 1157457 798390 3491505 gravelly sandy loam GR-SL 798371 1157458 798371 3440260 very gravelly sandy loam GRV-SL GRV-SL 0.4	798391	1157456	798391					
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798390 1157457 798390 3491504 gravelly sandy loam GR-SL 798390 1157457 798390 3491505 gravelly sandy loam GR-SL 798371 1157458 798371 3440260 very gravelly sandy loam GRV-SL GRV-SL 0.4	798390				· · · · · · · · · · · · · · · · · · ·			
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798371 1157458 798371 3440260 very gravelly sandy loam GRV-SL GRV-SL 0.4	798390	1157457	798390				İ	
	798371	1157458	798371				GRV-SL	0.4
	798371	1157458	798371					

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798382	1157460	798382		very gravelly coarse sandy loam	GRV-COSL	GRV-COSL	0.4
798382		798382		very gravelly coarse sandy loam	GRV-COSL	GIV-COSE	U. +
798382		798382		indurated	IND		
798406		798406		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798406	1157462	798406		extremely gravelly sandy loam	GRX-SL	0,0,02	<u> </u>
798406		798406		extremely gravelly sandy loam	GRX-SL		
798406		798406		very gravelly coarse sand	GRV-COS		
798406	1157462	798406		extremely cobbly coarse sand	CBX-COS		
798376	1157464	798376		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798376	1157464	798376		very gravelly sandy loam	GRV-\$L		
798376	1157464	798376		indurated	IND		
798477	1157465	798477	3548626	very stony loam	STV-L	STV-CL	0.04
798477	1157465	798477		very stony clay loam	STV-CL		
798477		798477		unweathered bedrock	UWB		
798360		798360		gravelly sandy loam	GR-SL	GR-SL	0,4
798360		798360		gravelly sandy loam	GR-SL		- ''
798360		798360		gravelly loam	GR-L		
798360	1157466	798360		gravelly sandy clay loam	GR-SCL		
798476		798476		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798476		798476		very cobbly sandy loam	CBV-SL	05/.02	
798476		798476		indurated	IND		
798476		798476		unweathered bedrock	UWB		
798476		798476		sandy loam	SL	SL	0.4
798476		798476		sandy loam	SL	<u> </u>	0.4
798476		798476		gravelly sandy clay loam	GR-SCL		
798476		798476		gravelly sandy loam	GR-SL		<u></u>
798476	1157468	798476		very gravelly loamy sand	GRV-LS		
798476	1157469	798476	****	very cobbly loam	CBV-L	CBV-SICL	0.04
798476	1157469	798476		very cobbly silty clay loam	CBV-SICL	OD V GIOL	0.04
798476	1157469	798476		very cobbly clay	CBV-C		•
798476	1157469	798476		unweathered bedrock	UWB		
798362		798362		very gravelly loam	GRV-L	GRV-CL	0.04
798362		798362		very gravelly clay loam	GRV-CL	0111 02	0.0-
798362	1157470	798362		extremely gravelly sandy clay loam	GRX-SCL		
	1157470	798362		unweathered bedrock	UWB		
	1157472	798368		very gravelly sandy loam	GRV-SL	GRX-SCL	0.06
798368	1157472	798368		extremely gravelly sandy clay loam	GRX-SCL	5.5.002	
798368		798368		extremely gravelly sandy day loam	GRX-SCL		
798368		798368		unweathered bedrock	UWB		
798372	1157473	798372		gravelly loam	GR-L	GR-L	0.25
798372	1157473	798372		gravelly sandy loam	GR-SL	J., L	4.24
798372	1157473	798372		gravelly sandy clay loam	GR-SCL		
798372	1157473	798372		indurated	IND		·
798372	1157473	798372		extremely gravelly sand	GRX-S		
798372	1157474	798372		gravelly sandy loam	GR-SL	GR-SL	0.4
798372	1157474	798372		gravelly sandy loam	GR-SL	552	
798372	1157474	798372		extremely gravelly coarse sandy loam	GRX-COSL		··· <u>-</u>
798372	1157474	798372		extremely gravelly coarse sandy loam	GRX-COSL		. <u> </u>
798407	1157476	798407		cobbly clay loam	CB-CL	CB-CL	0.04
798407	1157476	798407		cobbly clay loam	CB-CL	UD-UL	0.04
798407	1157476	798407		very cobbly clay loam	CBV-CL		
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798407			T		00110	Confining layer	XKSAT
798407				very cobbly clay	CBV-C		
798396				unweathered bedrock	UWB		
798396		 		silty clay loam	SICL	CL	0.04
	-			clay loam	CL	ļ <u></u>	
798396	1157477 1157477			clay loam	CL	ļ	
		798396		clay loam	CL		
	1157477 1157478	798396		silty clay loam	SICL		
<u> </u>				sandy loam	SL	SL	0.4
1	1157478			sandy loam	SL		
798396				sandy loam	SL		
798396				sandy loam	SL		
798396				clay loam	CL		
798396				loamy sand	LS	LS	1.2
798396		798396		loamy sand	LS		
798396				sandy loam	SL		
798396				loamy sand	LS		
798366				sandy loam	SL	L	0.25
798366		798366			L		
798366				clay loam	CL		
798366				sandy clay loam	SCL		
798366		798366			Ł		
798366		798366		sandy loam	SL	SL	0.4
798366		798366		sandy loam	SL		
798366	1157481	798366		sandy loam	SL.		
798366	1157481	798366		loamy sand	LS		
798414	1157482	798414	_	sandy loam	SL	L	0.25
798414	1157482	798414	3550109	loam	L		
798414	1157482	798414	3550105		L		
798414	1157482	798414		clay loam	CL		
798414	1157482	798414	3550113	sandy clay loam	SCL		
798414	1157482	798414	3550112	sandy clay loam	SCL		
798414	1157482	798414		clay loam	CL		
798414	1157482	798414	3550108	sandy loam	SL		
798414	1157483	798414		sandy loam	SL	SL.	0.4
	1157483	798414	3549589	sandy loam	SL		
	1157483	798414		sandy loam	SL		
798414		798414	3549591	sandy loam	SL		·
798385		798385	3549603	sandy loam	SL	SL	0.4
798385	1157484	798385	3549604	sandy loam	SL		
798385	1157484	798385	3549605	sandy loam	SL		
798385	1157484	798385	3549606	sandy loam	SL		
798385	1157484	798385	3549607	extremely gravelly sand	GRX-S		
798385	1157485	798385		sandy loam	SL	L	0.25
798385	1157485	798385	3550115		L		
798385	1157485	798385	3550116		L		
798385	1157485	798385		clay loam	CL		
798385	1157485	798385		sandy clay loam	SCL		
798385	1157485	798385		sandy clay loam	SCL		
798385	1157485	798385	3550120		CL		
798385	1157485	798385		sandy loam	SL		
798367	1157486	798367		gravelly sandy loam	GR-SL	GR-SL	0.4
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CO	key	ch	key	Soil Texture	<u> </u>	Confining layer	XKSAT
798367	1157486			gravelly sandy loam	CD CI	Confining layer	AKSAT
798367	1157486		1	gravelly sandy loam	GR-SL		
798367	1157486			gravelly sandy loam	GR-SL		
798367	1157486			very gravelly sandy loam	GR-SL		• •
798402	1157488			silt loam	GRV-SL	0"	- A 4-
798402	1157488				SIL	SIL	0.15
798402	1157488			silty clay loam	SIL		
798402	1157488			clay loam	SICL		
798392	1157400	798392	1	extremely cobbly sandy loam	CL	05)/ 01	~ .
798392	1157492	798392			CBX-\$L	CBX-SL	0.4
798392	1157492	798392		extremely gravelly sandy loam	GRX-SL		
798392	1157492			very gravelly sandy clay loam	GRV-SCL		
798392	1157492	798392		very gravelly sandy clay loam	GRV-SCL		
		798392		weathered bedrock	WB		
798392	1157493			extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798392		798392	_	very gravelly sandy loam	GRV-SL		
798392		798392		very gravelly sandy clay loam	GRV-SCL		
798392	1157493	798392		very cobbly sandy clay loam	CBV-SCL		<u> </u>
798392	1157493	798392		very cobbly sandy clay loam	CBV-SCL		
798392	1157493	798392	·	very cobbly sandy clay loam	CBV-SCL		
798392	1157494			extremely stony sandy loam	STX-SL	STX-SL	0.4
798392	1157494	798392		very gravelly sandy loam	GRV-SL		••
798392	1157494	798392		weathered bedrock	WB		
798417	1157496	798417		extremely stony coarse sandy loam	STX-COSL	STX-COSL	0.4
798417	1157496	798417		extremely stony coarse sandy loam	STX-COSL		
798417	1157496	798417		unweathered bedrock	UWB		
798491	1157497	798491		extremely stony loam	STX-L	CBV-SIL	0.15
798491	1157497	798491		very cobbly silt loam	CBV-SIL		
798491	1157497	798491		very cobbly loam	CBV-L		
798491	1157497	798491	3534510	very cobbly sandy loam	CBV-SL		
798491	1157498	798491		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798491	1157498	798491	-	very cobbly sandy loam	CBV-SL		
798491	1157498	798491		indurated	IND		
798491	1157498	798491		unweathered bedrock	UWB		
798490		798490		extremely stony loam	STX-L	CBV-SIL	0.15
798490				very cobbly silt loam	CBV-SIL		
	1157499			very cobbly loam	CBV-L		
798490		798490		very cobbly sandy loam	CBV-SL		
798490	1157500	798490	3548938	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798490	1157500	798490	3548939	very gravelly sandy loam	GRV-SL		
798490	1157500	798490	3560012	indurated	IND		
798490	1157500	798490	3560062	unweathered bedrock	UWB		
798445	1157507	798445	3440230	gravelly sandy loam	GR-SL	GR-SL	0.4
798445	1157507	798445	3440232	very gravelly sandy loam	GRV-\$L		
798445	1157507	798445		very gravelly sandy loam	GRV-SL		
798445	1157507	798445		very gravelly sandy loam	GRV-SL		
798445	1157508	798445		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798445	1157508	798445		gravelly sandy loam	GR-SL		
798445	1157508	798445		very gravelly sandy loam	GRV-SL		
798445	1157508	798445	3560014		IND		
798445		798445		extremely gravelly loamy sand	GRX-LS		
798445		798445		gravelly coarse sandy loam	GR-COSL	GR-SL	0.4
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col	кеу	chl	key	Soil Texture		Confining layer	XKSAT
798445	1157509			gravelly sandy loam	GR-SL		
798445		798445		gravelly sandy clay loam	GR-SCL		
798445		798445		indurated	IND		
798445		798445		extremely gravelly sand	GRX-S		
798405		798405		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798405		798405		very gravelly sandy loam	GRV-SL	5.1. 62	4. .
798405		798405		indurated	IND		
798405		798405		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798405	1157511	798405		very cobbly sandy loam	CBV-SL		0110
798405		798405		very cobbly sandy loam	CBV-SL		
798405		798405		extremely gravelly coarse sand	GRX-COS		
798405		798405		extremely gravelly coarse sand	GRX-COS		
798405	1157511	798405		extremely gravelly coarse sand	GRX-COS		
798405	1157511	798405		extremely gravelly coarse sand	GRX-COS		
798431	1157512	798431		very gravelly coarse sandy loam	GRV-COSL	GRV-COSL	0.4
798431	1157512	798431		very gravelly coarse sandy loam	GRV-COSL	3/14-0000	V.7
798431		798431		very gravelly sandy clay loam	GRV-SCL		
798431		798431		indurated	IND		
798431		798431		very gravelly sandy loam	GRV-SL	GRV-\$L	0.4
798431	1157513	798431		very gravelly sandy loam	GRV-SL	GIV-OL	0.4
798431	1157513	798431	-	very gravelly sandy loam	GRV-SL		
798431	1157513	798431		indurated	IND		
798383	1157517	798383		extremely gravelly coarse sandy loam	GRX-COSL	GRX-COSL	0.4
798383	1157517	798383		extremely cobbly coarse sandy loam	CBX-COSL	GRA-COSL	V. 4
798383		798383		extremely cobbly coarse sandy loam	CBX-COSL		
798383	1157517	798383		indurated	IND		
798503		798503		very gravelly sandy loam	GRV-SL	CDV CI	0.4
798503	1157518	798503		very gravelly sandy loam	GRV-SL	GRV-\$L	0.4
798503	1157519	798503		very gravelly sandy loam very gravelly sandy loam	GRV-SL	CDV CI	
798503	1157519	798503				GRV-SL	0.4
798503	1157519	798503		very gravelly sandy loam	GRV-SL		
798503				indurated	IND	CD OI	0.4
 	1157520	798503		gravelly sandy loam	GR-SL	GR-SL	0.4
798503	1157520	798503		gravelly sandy loam	GR-SL		
798503	1157520	798503		extremely gravelly sandy loam	GRX-SL		
798503		798503		indurated	IND	A=11.11	
798398		798398		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798398		798398		extremely gravelly sandy loam	GRX-SL		
798398		798398		indurated	IND		
798370		798370		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798370		798370		extremely gravelly sandy loam	GRX-SL		
798370		798370		extremely gravelly sandy loam	GRX-SL		
798370		798370		indurated	IND		
798370		798370		unweathered bedrock	UWB		
798370	1157523	798370		extremely gravelly sandy loam	GRX-SL	GRX-\$L	0.4
798370	1157523	798370		extremely gravelly sandy loam	GRX-SL		
798370	1157523	798370		indurated	IND		
798370		798370		unweathered bedrock	UWB		
798370	1157524	798370		very gravelly sandy loam	GRV-SL	GRV-SCL	0.06
798370	1157524	798370	3889619	very gravelly sandy clay loam	GRV-SCL		
798370	1157524	798370	3889618	very gravelly sandy clay loam	GRV-SCL		
798370	1157524	798370	3496629	very gravelly sandy clay loam	GRV-SCL		

col	key	ch	key	Soil Texture		Confining layer	XKSAT
798370	1157524	798370	3560022	indurated	IND	Outming tayor	7410711
798370	1157524			unweathered bedrock	UWB		
798437	1157527	798437		extremely stony loam	STX-L	STX-L	0.25
798437	1157527	798437		extremely stony loam	STX-L		0.20
798437	1157527	798437		unweathered bedrock	UWB		
798378	1157528	798378	3493366	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798378	1157528	798378		extremely gravelly sandy loam	GRX-SL		
798378	1157528	798378		indurated	IND		
798378	1157528	798378	3560068	unweathered bedrock	UWB		
798378	1157529	798378	3497676	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798378	1157529	798378		extremely gravelly sandy loam	GRX-SL		
798378	1157529	798378		indurated	IND		
798378	1157529	798378	3560067	unweathered bedrock	UWB		
798436	1157531	798436	3550829	very gravelly toam	GRV-L	GRV-L	0.25
798436	1157531	798436		very gravelly loam	GRV-L		-
798436	1157531	798436		unweathered bedrock	UWB		
798438	1157533	798438		extremely stony loam	STX-L	STX-L	0.25
798438	1157533	798438		very cobbly loam	CBV-L		
798438	1157533	798438	3545674	extremely cobbly loam	CBX-L		
798438	1157533	798438		extremely cobbly sandy clay loam	CBX-SCL		
798438	1157533	798438		extremely cobbly clay loam	CBX-CL		
798438	1157534	798438		extremely stony loam	STX-L	STX-L	0.25
798438	1157534	798438		extremely gravelly sandy loam	GRX-SL		
798438	1157534	798438		unweathered bedrock	UWB		
798505	1157540	798505		loamy sand	LS	LS	1.2
798505	1157540	798505		loamy sand	LS		
798505	1157540	798505		sandy loam	SL		
798505	1157540	798505		loamy sand	LS		
798373	1157541	798373	3454367	gravelly sandy loam	GR-SL	GR-SL	0.4
798373	1157541	798373		gravelly sandy loam	GR-SL		
798373	1157541	798373		very gravelly sandy loam	GRV-SL		
798373	1157541	798373	3560027	indurated	IND		
798373	1157542	798373	3440239	gravelly sandy loam	GR-SL	GR-SL	0.4
798373	1157542	798373	3440240	gravelly sandy loam	GR-SL		
798373	1157542	798373		very gravelly sandy loam	GRV-SL	-	
798373	1157542	798373		extremely gravelly sandy loam	GRX-SL		
798357	1157543	798357		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798357	1157543	798357		very gravelly sandy loam	GRV-SL		
798357	1157543	798357		weathered bedrock	WB		
798357	1157544	798357	3440347	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798357	1157544	798357		very gravelly sandy loam	GRV-SL		
798357	1157544	798357		very gravelly sandy loam	GRV-SL		
798357	1157545	798357	3438340	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798357	1157545	798357		very gravelly sandy loam	GRV-SL		
798357	1157545	798357		very gravelly sandy loam	GRV-SL		
798357	1157545	798357	3560115	weathered bedrock	WB		
798357	1157545	798357	3560071	unweathered bedrock	UWB		,
798361	1157546	798361	3493446	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798361	1157546	798361	3493445	very gravelly sandy loam	GRV-SL		
798361	1157546	798361	3560118	weathered bedrock	WB		
798361	1157546	798361	3560073	unweathered bedrock	UWB		

col	кеу	chi	key	Soil Texture		Confining layer	XKSAT
798361	1157547	798361	3550917	very gravelly sandy clay loam	GRV-SCL	GRV-SCL	0.06
798361	1157547	798361		very gravelly sandy clay loam	GRV-SCL		
798361		798361		weathered bedrock	WB		
798361	1157547	798361		unweathered bedrock	UWB		
798416		798416		gravelly sandy clay loam	GR-SCL	GR-SCL	0.04
798416		798416		gravelly sandy loam	GR-SL		
798416		798416		gravelly sandy clay loam	GR-SCL		
798416	1157548	798416		indurated	IND	, ,,,,,	
798416	1157548	798416		extremely gravelly sand	GRX-S		
798416				gravelly sandy clay loam	GR-SCL	GR-SCL	0.04
798416				gravelly sandy clay loam	GR-SCL		
798416		798416		clay loam	CL		
798416		798416		very gravelly sandy loam	GRV-SL		
798416		798416		extremely gravelly loarny coarse sand	GRX-LCOS		
798443	1157550	798443		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798443		798443		very gravelly sandy loam	GRV-SL	5 52	V.17
798443		798443		very gravelly sandy loam	GRV-SL		
798443		798443		very gravelly sandy loam	GRV-SL		
798443		798443		extremely gravelly sandy loam	GRX-SL		
798443		798443		indurated	IND		
798443		798443		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798443		798443		gravelly sandy loam	GR-SL	GIV-3L	. 0.4
798443	1157552	798443		very gravelly sandy loam	GRV-SL		
798443	1157552	798443		very gravelly loamy sand	GRV-SL		
798412	i	798412		sandy loam	SL	SL	0,4
798412		798412		gravelly sandy loam	GR-SL	ŞL.	0.4
798412		798412		gravelly sandy clay loam	GR-SCL		
798374	1157554	798374		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798374	1157554	798374		very gravelly sandy loam	GRV-SL	GRV-GL	Ų. 4
798374	1157554	798374		extremely gravelly loamy sand	GRX-LS		
798374	1157554	798374		extremely gravelly loanly sand extremely gravelly sandy loam			
798374	1157554	798374		extremely gravelly loamy sand	GRX-SL		
798374	1157555	798374			GRX-LS	CD CI	0.4
798374		798374		gravelly sandy loam	GR-SL	GR-SL	0.4
798504				very gravelly sandy loam	GRV-SL	OD COL	0.04
798504	1157557 1157557	798504 798504		very gravelly sandy loam	GRV-SL	GR-SCL	0.04
798504	1157557			gravelly sandy clay loam	GR-SCL		
798504	1157557	798504		gravelly sandy clay loam	GR-SCL		
		798504		very gravelly sandy loam	GRV-SL	051/31	
798504	1157558	798504		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798504	1157558	798504		very gravelly sandy loam	GRV-SL		
798504	1157558	798504		indurated	IND		
798512	1157560	798512		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798512		798512		very cobbly sandy loam	CBV-SL		
798512		798512		unweathered bedrock	UWB		
798384	1157563	798384		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798384	1157563	798384		very cobbly coarse sandy loam	CBV-COSL		
798384	1157563	798384		unweathered bedrock	UWB		
798420	1157567	798420		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798420	1157567	798420		extremely gravelly sandy loam	GRX-SL	ļ	
798420	1157567	798420		extremely gravelly sandy loam	GRX-SL		
798420	1157567	798420	3442832	extremely gravelly loamy sand	GRX-LS		

col	key	ch	key	Soil Texture		Confining layer	XKSAT
798421	1157570	798421	3576622	extremely stony sandy loam	STX-SL	STX-SL	0.4
798421	1157570	798421		very gravelly sandy loam	GRV-SL	317.52	<u></u>
798421		798421		unweathered bedrock	UWB		
798421	1157571	798421		extremely cobbly sandy loam	CBX-SL	CBX-L	0.25
798421	1157571	798421		extremely cobbly loam	CBX-L		
798421	1157571	798421		extremely cobbly sandy loam	CBX-SL		
798488	1157572	798488		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798488	1157572	798488		very gravelly sandy loam	GRV-SL		
798488	1157572	798488	3560079	unweathered bedrock	UWB		
798488	1157573	798488	3551164	extremely gravelly loam	GRX-L	GRX-L	0.25
798488	1157573	798488		extremely gravelly loam	GRX-L		
798488	1157573	798488		extremely gravelly loam	GRX-L		
798488	1157573	798488		cemented	СЕМ		
798506	1157580	798506	3551207	sand	S	s	4.6
798395	1157589	798395	3551137	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798395	1157589	798395		very gravelly sandy loam	GRV-SL		
798395	1157589	798395		very gravelly loam	GRV-L		
798423	1157595	798423		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798423	1157595	798423		extremely gravelly sandy loam	GRX-SL		
798423	1157595	798423		extremely gravelly sandy loam	GRX-SL		
798423	1157595	798423		extremely gravelly sandy loam	GRX-SL		
798423	1157595	798423		extremely gravelly loamy sand	GRX-LS		
798424	1157596	798424		extremely gravelly loam	GRX-L	GRX-L	0.25
798424	1157596	798424		very gravelly sandy loam	GRV-SL		
798424	1157596	798424		very gravelly sandy loam	GRV-SL	· · · · · · · · · · · · · · · · · · ·	
798424	1157596	798424		extremely gravelly loamy sand	GRX-LS		
798424	1157596	798424		very gravelly loamy sand	GRV-LS		
798422	1157597	798422		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798422	1157597	798422		gravelly sandy loam	GR-SL		
798422	1157597	798422		extremely gravelly sandy loam	GRX-SL		
798487	1157602	798487		very gravelly sandy toam	GRV-SL	GRV-SL	0.4
798487	1157602	798487	3437063	very gravelly sandy loam	GRV-SL		
798487	1157602	798487	3437062	very gravelly coarse sandy loam	GRV-COSL		
798487	1157602	798487		indurated	IND		
798487	1157602	798487	3560084	unweathered bedrock	UWB		
798401	1157603	798401	3551297	very gravelly loamy sand	GRV-LS	GRV-LS	1.2
798401	1157603	798401		very gravelly loamy sand	GRV-LS		
798401	1157603	798401	3551299	gravelly loamy sand	GR-LS		
798401	1157603	798401		fine sand	FS		
798481	1157605	798481	3455550	extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798481	1157605	798481	3455549	extremely cobbly sand	CBX-S		
798358	1157609	798358	3438420	very channery loam	CNV-L		-
798358	1157609	798358	3438419	very channery clay loam	CNV-CL		
798358	1157609	798358	3438418	very channery clay	CNV-C		
798358	1157609	798358	3889410	weathered bedrock	WB		
798358	1157609	798358	3560124	weathered bedrock	WB		
798479	1157611	798479	3551362	extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798479	1157611	7 98479	3551379	very gravelly sandy loam	GRV-SL		
798479	1157611	798479	3551380	unweathered bedrock	UWB		
798479	1157612	798479	3455624	extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798479	1157612	798479	3455623	extremely gravelly sandy loam	GRX-SL		

col	еу	çhl	key	Soil Texture		Confining layer	XKSAT
798479	1157612	798479	3455622	extremely gravelly sandy loam	GRX-SL		•
798479		798479		unweathered bedrock	UWB		
798485		798485		sandy loam	SL	L	0.25
798485		798485		-	L	_	
798485	1157618	798485		sandy clay loam	SCL		
798485	1157618	798485		sandy clay loam	SCL		
798485	1157618	798485		unweathered bedrock	UWB		
798485		798485		sandy loam	SL	SL	0.4
798485	1157619	798485		sandy loam	SL		
798485	1157619	798485		sandy clay loam	SCL		
798485	1157619	798485		unweathered bedrock	UWB		
798440	1157624	798440		very gravelly sandy loam	GRV-SL	GRX-L	0.25
798440	1157624	798440		extremely gravelly loam	GRX-L	9.012	0.20
798440	1157624	798440		very gravelly sandy loam	GRV-SL	 	
798440	1157624	798440		extremely gravelly sandy loam	GRX-SL		
798440		798440		gravelly sandy loam	GR-SL	GR-L	0.25
798440		798440		gravelly loam	GR-L	<u> </u>	V.20
798440		798440		cemented	CEM		
798440	1157625	798440		extremely gravelly sandy loam	GRX-SL		
798415	1157632	798415		gravelly sandy loam	GR-SL	GR-SCL	0.04
798415		798415		gravelly sandy clay loam	GR-SCL	GIV-SOL	0.04
798415		798415		gravelly sandy clay loam	GR-SCL	<u> </u>	
798415		798415		cemented	CEM		
798415		798415		unweathered bedrock	UWB		
798415	1157632	798415			GRV-SL	GR-SCL	0.04
798415	1157633	798415		very gravelly sandy loam gravelly sandy clay loam		GK-SCL	0.04
798415	1157633	798415			GR-SCL		
798415				gravelly sandy clay	GR-SC	<u> </u>	
798415	1157633	798415		cemented	CEM		
 	1157633	798415		unweathered bedrock	UWB	00.01	0.04
798493 798493	1157635	798493		gravelly clay loam	GR-CL	GR-CL	0.04
	1157635	798493		gravelly clay loam	GR-CL		
798493	1157635	798493		gravelly clay loam	GR-CL		
798493	1157635	798493		gravelly clay	GR-C		
798493	1157635	798493			C		
	1157635			unweathered bedrock	UWB		
798493	1157636	798493		very cobbly sandy loam	CBV-SL	CBV-CL	0.04
798493	1157636	798493		very cobbly clay loam	CBV-CL		
798493	1157636	798493		very cobbly silty clay	CBV-SIC		
798493	1157636	798493		unweathered bedrock	UWB		·····
798387	1157639	798387	3445925		SIL	SIL	0.15
798387	1157639	798387	3445924	· · · · · · · · · · · · · · · · · · ·	L		
798387	1157639	798387		day loam	CL		
798449	1157642	798449		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798449	1157642	798449		very gravelly sandy loam	GRV-SL		
798449	1157642	798449		unweathered bedrock	UWB		
798411	1157644	798411	3551756	extremely cobbly loam	CBX-L	CBX-CL	0.04
798411	1157644	798411	3551757	extremely cobbly clay loam	CBX-CL		
798411	1157644	798411	3551758	clay	С		
798411	1157644	798411	3560092	unweathered bedrock	UWB		
798441	1157647	798441	3951469	gravelly sandy loam	GR-SL	GR-C	0.01
798441	1157647	798441	3551776	gravelly clay	GR-C		

col	key	ch	key	Soil Texture		Confining layer	XKSAT
798441	1157647	798441		very gravelly sandy clay	GRV-SC	Comming layer	ANOAT
798441	1157647	798441		very gravelly sandy clay loam	GRV-SCL		
798441	1157647	798441		extremely gravelly coarse sandy loam	GRX-COSL		
798441	1157647	798441		very gravelly loamy coarse sand	GRV-LCOS		
798484	1157648	798484		sandy loam	SL SL	SCL	0.06
798484		798484		sandy clay loam	SCL	302	0.00
798484		798484		gravelly coarse sandy toam	GR-COSL	-	
798484		798484	3551970		L L		
798484		798484		sandy loam	SL	SL	0.4
798484	1157650	798484		sandy loam	SL	- 35	0.4
798484		798484		sandy clay loam	SCL		
798484		798484		unweathered bedrock	UWB		
798393		798393	-	extremely gravelly fine sandy loam	GRX-FSL	GRV-L	0.25
798393		798393		very gravelly loam	GRV-L	OKV-L	0.20
798393	1157652	798393		clay loam	CL		
798393	1157652	798393			C		
798393	1157652	798393		cobbly clay	CB-C		
798393		798393		cobbly day	CB-C		
798393	1157652	798393		unweathered bedrock	UWB	 	
798393	1157653	798393		very channery clay loam	CNV-CL	С	0.04
798393		798393	3526131		CIVV-CL	<u> </u>	0.01
798393		798393		unweathered bedrock			
798509		798509		gravelly sandy loam	UWB	OD CI	0.4
798509	1157654	798509		gravelly sandy loam	GR-SL	GR-SL	0.4
798509		798509		unweathered bedrock	GR-SL UWB		
798509	1157655			sandy loam	SL	Ci Ci	0.4
798509	1157655	798509		sandy loam sandy loam		SL	0.4
798509	1157655	798509		sandy clay loam	SL SCL		
798509	1157655	798509		unweathered bedrock	UWB		
798498	1157658	798498		extremely cobbly clay loam	CBX-CL	CBX-C	0.04
798498	1157658	798498		extremely cobbly clay		CBX-C	0.01
798498	1157658	798498		weathered bedrock	CBX-C		
798498	1157658	798498		unweathered bedrock	WB		
798448		798448			UWB	00/100	0.00
798448				very gravelly sandy loam	GRV-SL	GRV-SCL	0.06
798448		798448		very gravelly sandy clay loam	GRV-SCL		
798448	1157659	798448		extremely gravelly sandy loam extremely gravelly sandy loam	GRX-SL		
798448		798448			GRX-SL		
798480		798480		extremely gravelly sandy loam	GRX-SL	CDV	0.05
798480	1157662	798480		extremely gravelly loam extremely cobbly loam	GRX-L	GRX-L	0.25
798480	1157662	798480			CBX-L	 	
798480	1157662			extremely cobbly silty clay loam	CBX-SICL		
798480	1157662	798480		extremely cobbly silty clay loam	CBX-SICL		
798425	1157664	798480 798425		unweathered bedrock	UWB		0.4
				sandy loam	SL.	SL	0.4
798425 798425	1157664	798425	3552017		L		<u></u>
l ———	1157664	798425	3552018		C		
798425	1157664	798425	3552020		SIC		
798425	1157664	798425		clay loam	CL CL	07.0	
798483	1157666	798483		very stony sandy loam	STV-SL	STV-SL	0.4
798483	1157666	798483		very cobbly sandy loam	CBV-SL		
798483	1157666	798483	3555903	very cobbly loam	CBV-L		

col	кеу	ch	key	Soil Texture		Confining layer	XKSAT
798483	1157666	798483		extremely cobbly sandy loam	CBX-SL		
798483	1157667	798483		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798483		798483		gravelly sandy loam	GR-SL		0.10
798483		798483		very gravelly sandy loam	GRV-SL	<u> </u>	
798483		798483		weathered bedrock	WB		
798381		798381		extremely flaggy sandy loam	FLX-SL	FLX-SL	0.4
798381		798381		channery fine sandy toam	CN-FSL	12.02	
798381	1161243	798381		extremely flaggy clay	FLX-C		
798381	1161243	798381		unweathered bedrock	UWB		
798409	1161253	798409	3417098		SIL	SIL	0.15
798409	1161253	798409			SIL	J	0.10
798508	1161258	798508		very gravelly loam	GRV-L	GR-L	0.25
798508	1161258	798508		gravelly loam	GR-L	- VI. 2	0.20
798508	1161258	798508		cobbly loam	CB-L		
798508	1161258	798508		cemented	CEM		
798508		798508		indurated	IND		
798508		798508		extremely gravelly loam	GRX-L	GR-L	0.25
798508		798508		gravelly loam	GR-L	OIV-E	0.20
798508	1161259	798508		gravelly loam	GR-L		
798508	1161259	798508		very gravelly loam	GRV-L		
798508	1161259	798508		gravelly loam	GR-L		
798508	1161259	798508		gravelly loam	GR-L		
798478	1161266	798478		very gravelly loam	GRV-L	GRV-L	0.25
798478	1161266	798478		very gravelly loam	GRV-L	GIV-L	0.20
798478	1161266	798478		very gravelly silt loam	GRV-SIL		
798478		798478		unweathered bedrock	UWB		
798482	1164098	798482		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798482	1164098	798482		very cobbly sandy loam	CBV-SL	CBV-SL	0.10
798482	1164098	798482		very gravelly sandy loam	GRV-SL		
798482	1164098	798482		weathered bedrock	WB		
798482	1165469	798482		very stony sandy loam	STV-SL	STV-SL	0.4
798482	1165469	798482		very cobbly sandy loam	CBV-SL	01V-0L	0.4
798482	1165469	798482		very cobbly loam	CBV-SL		
798482		798482		extremely cobbly sandy loam	CBX-SL		
798386		798386		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798386		798386		very gravelly sandy loam	GRV-SL	ODV-OL	0.10
798386		798386		weathered bedrock	WB		
798386		798386		unweathered bedrock	UWB	· · · ·	
798423	1168646	798423		extremely gravelly sand	GRX-S	GRX-S	4.6
798401	1168647	798401		extremely gravelly loamy sand	GRX-LS	GRX-LS	1.2
798401		798401		extremely gravelly sand	GRX-S	0,00-20	1.4
798492		798492	3455096		L	SIL	0.15
798492	1169176	798492	3892514		SIL		0.10
798492	1169176	798492	3892510	·	SIL	 	
798492	1169176	798492	3455097		SIL		
798492	1169177	798492	3455122		L	SIL	0.15
798492	1169177	798492	3455123		SIL	JIL I	0.10
798363	1178731	798363		extremely gravelly sandy loam	GRX-SL	CRY SI	0.4
798363	1178731	798363		gravelly sandy loam	GR-SL	GRX-SL	V.4
798363	1178731	798363		extremely gravelly loamy sand	GRX-LS		
887667	1183959	887667	3572966			 	0.25
301001	1100000	001001	0012800	IOam	L	L	0.25

col	кеу	ch	key	Soil Texture		Confining layer	XKSAT
887667	1183959	887667	3572967	clay	С		70.00.00
887667	1183959	887667	3681829		C		
887667	1183959	887667		sandy clay loam	SCL		
887667	1183959	887667	3572978		L		
887830	1183988	887830		very cobbly clay loam	CBV-CL	С	0.01
887830	1183988	887830	3573022		С	-	
887830	1183988	887830		very gravelly clay	GRV-C		
888383	1184044	888383		very gravelly loam	GRV-L	GRV-L	0.25
888383	1184044	888383	3632193	cobbly loam	CB-L		
888383	1184044	888383	3632195	unweathered bedrock	UWB		
889257	1184094	889257		gravelly sandy loam	GR-SL	L	0.25
889257	1184094	889257	3574303		L		
889257	1184094	889257		gravelly clay	GR-C		
889257	1184094	889257		weathered bedrock	WB		
889257	1184094	889257		unweathered bedrock	UWB		
798480	1184631	798480	3576542	extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798480	1184631	798480	-	extremely gravelly sandy loam	GRX-SL	-2-, 22	
798480	1184631	798480		extremely gravelly sandy loam	GRX-SL		
798480	1184631	798480		unweathered bedrock	UWB	-	
887441	1200003	887441		cobbly loam	CB-L	CB-L	0.25
887441	1200003	887441		gravelly loam	GR-L	05.2	0.20
887441	1200003	887441		gravelly loam	GR-L		
887441	1200003	887441		indurated	IND		
887441	1200003	887441		extremely gravelly sand	GRX-S		
798379	1200008	798379		very cobbly loam	CBV-L	CL	0.04
798379	1200008	798379		clay loam	CL		0.01
798379		798379	3629256		C		
798379		798379		unweathered bedrock	UWB		
798379	1200009	798379		very cobbly silty clay loam	CBV-SICL	CB-SIC	0.02
798379	1200009	798379		cobbly silty clay	CB-SIC		0.02
798379	1200009	798379	3880142		С		
798379	1200009	798379	3629260		C		
798379	1200009	798379		clay loam	CL		
798379	1200009	798379		unweathered bedrock	UWB		
798427		798427			L	L	0.25
798427	1200154	798427	3880002		C	-	
798427	1200154	798427	3629653		C		
798427	1200154	798427		gravelly clay loam	GR-CL		
798427	1200154	798427		weathered bedrock	WB		
798427	1200154	798427		unweathered bedrock	UWB		
798427	1200155	798427		very gravelly loam	GRV-L	GRV-L	0.25
798427	1200155	798427		very gravelly sandy loam	GRV-SL		
798427	1200155	798427		weathered bedrock	WB		
798427	1200155	798427		unweathered bedrock	UWB		
798507	1200156	798507		extremely cobbly sandy loam	CBX-SL	GRV-SCL	0.06
798507	1200156	798507		very gravelly sandy clay loam	GRV-SCL		
798507	1200156	798507		weathered bedrock	WB		
798507	1200157	798507		gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
798507	1200157	798507		very gravelly sandy loam	GRV-SL		
798507	1200157	798507		weathered bedrock	WB	-	
798507	1200157	798507		unweathered bedrock	UWB		

col	key	ch	key	Soil Texture		Confining layer	XKSAT
798377	1200159	798377	3629679	very cobbly sandy clay loam	CBV-SCL	С	0.01
798377	1200159	798377	3880139		С		
798377	1200159	798377	3629680	clay	С		
798377	1200159	798377	3629681	weathered bedrock	WB		
798377	1200159	798377	3629682	unweathered bedrock	UWB		
887442	1200165	887442	3943887	sandy loam	ŞL	SCL	0.06
887442	1200165	887442	3629687	sandy clay loam	SCL		
887442	1200165	887442	3629688	coarse sandy loam	COSL		
798380	1200166	798380	3629697	very cobbly loam	CBV-L	CL	0.04
798380	1200166	798380	3629698	clay loam	CL		
798380	1200166	798380	3629699	clay	С		
798380	1200166	798380	3629700	unweathered bedrock	UWB		
888382	1200974	888382	3632196	very gravelly loam	GRV-L	GRV-L	0.25
888382	1200974	888382	3632197	cobbly loam	CB-L		
888382	1200974	888382	3632198	unweathered bedrock	UWB		
888382	1200976	888382	3632990	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
888382	1200976	888382		gravelly sandy loam	GR-SL		
888382	1200976	888382		weathered bedrock	WB		
888382	1200976	888382	3633014	unweathered bedrock	ŲWB		
890226	1201315	890226	3889562	loam	L	L	0.25
890226	1201315	890226	3889565	loam	L		
890226	1201315	890226	3889566	loam	L		
890226	1201319	890226	3963322	sandy loam	SL	SL	0.4
890226	1201319	890226		sandy loam	SL		
890226	1201319	890226		sandy loam	SL		
890226	1201319	890226	3633142	gravelly sandy loam	GR-SL		
890226	1201319	890226		gravelly sandy loam	GR-SL		
890226	1201319	890226		gravelly loamy sand	GR-LS		
1146330	1216880	1146330		silty clay loam	SICL	SICL	0.04
1146330	1216880	1146330	3688869	silty clay loam	SICL		
1146330	1216880	1146330	3762864	silt loam	SIL		
1146330	1216880	1146330	3688867	silfy clay loam	SICL		
1147394	1220218	1147394		extremely gravelly silt loam	GRX-SIL	GRX-SIL	0.15
1147394	1220218	1147394		gravelly loam	GR-L	i	
1147394	1220218	1147394		very gravelly loam	GRV-L		
1147394	1220218	1147394		extremely gravelly loamy sand	GRX-LS		
1147394				very gravelly sandy loam	GRV-SL		
1147394				very gravelly loamy sand	GRV-LS		
1147394	1220219			very cobbly sandy loam	CBV-SL	CBV-SL	0.15
1147394	1220219			very gravelly sandy loam	GRV-SL		-
1147394				very cobbly loamy sand	CBV-LS		
1147394				very gravelly loamy sand	GRV-LS		
1147394	1220219			very gravelly sand	GRV-S	· · ·	
1147387	1220228	1147387		gravelly sandy loam	GR-SL	SL.	0.4
1147387	1220228			sandy loam	SL		
1147387	1220228			gravelly sandy loam	GR-SL		
1147387	1220228			gravelly sandy loam	GR-SL		
1147387	1220228			gravelly coarse sandy loam	GR-COSL		
	· · · · · · · · · · · · · · · · · · ·						
1147387	1220228	11473871	36993361	very gravelly loamy sand	I GRV-IS I	1	
1147387 1147387	1220228 1220229	1147387 1147387		very gravelly loamy sand gravelly sandy loam	GRV-LS GR-SL	GR-SL	0.4

col	кеу	chl	key	Soil Texture		Confining layer	XKSAT
1147387	1220229			sandy loam	SL	3.5,5	
1147387	1220229			extremely gravelly loamy sand	GRX-LS		
1147387	1220229			very gravelly loamy coarse sand	GRV-LCOS		
1147386				gravelly loamy sand	GR-LS	SL	0.4
1147386	1220230	1147386	3702337	sandy loam	SL		
1147386	1220230	1147386	3702336	sandy loam	SL		
1147386	1220230	1147386	3699343	sandy loam	SL		
1147386	1220230	1147386	3699344	gravelly sandy loam	GR-SL		
1147386	1220230	1147386	3702338	very gravelly sandy loam	GRV-SL		
1147386	1220230	1147386	3699345	very gravelly sandy loam	GRV-SL		
1147385	1220231	1147385	3807664	gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
1147385	1220231	1147385	3699347	very gravelly sandy loam	GRV-SL		
1147385	1220231	1147385	3699348	weathered bedrock	WB		
1147385	1220231	1147385	3699349	unweathered bedrock	UWB		
1147383	1220233	1147383	3699355	extremely cobbly sandy loam	CBX-SL	GRV-SCL	0.06
1147383	1220233	1147383	3699356	very gravelly sandy clay loam	GRV-SCL		
1147383	1220233	1147383	3699357	weathered bedrock	WB		
1147383	1220234	1147383	3699358	very gravelly sandy loam	GRV-SL	SC	0.02
1147383	1220234	1147383	3702389	sandy clay	sc		
1147383	1220234	1147383	3699359	sandy clay	SC		
1147383	1220234	1147383	3699360	gravelly sandy clay	GR-SC		
1147383	1220234	1147383	3699361	weathered bedrock	WB		
1147383	1220234	1147383	3699362	unweathered bedrock	UWB		
1147381	1220244	1147381	3699407	very cobbly loam	CBV-L	CBV-L	0.25
1147381	1220244	1147381	3699408	extremely gravelly loam	GRX-L		
1147381	1220244	1147381	3699409	indurated	IND		
1147381	1220244	1147381	3699410	unweathered bedrock	UWB		
1147380	1220245	1147380	3699411	very gravelly loarny sand	GRV-LS	GRV-SCL	0.06
1147380	1220245	1147380	3699412	very gravelly sandy clay loam	GRV-SCL		
1147380	1220245	1147380	3807749	gravelly clay	GR-C		
1147380	1220245	1147380	3699414	clay	С		
1147380	1220245	1147380	3699415	gravelly sandy clay loam	GR-SCL		
1147380	1220245	1147380	3699416	gravelly loamy sand	GR-LS		
1147379	1220246	1147379		gravelly loamy sand	GR-LS	SCL	0.06
1147379		1147379		sandy clay loam	SCL		
1147379				sandy clay	SC		
1147379				gravelly sandy clay loam	GR-SCL		
1147379	1220246			gravelly loamy sand	GR-LS		
1147377	1220248			silty clay loam	SICL	SR- SIC	0.02
1147377	1220248			stratified silty clay	SR-SIC		
1147377	1220248		3892597		SIL		
1147377	1220248			stratified silty clay	SR- SIC		
1147377	1220248	1147377		silty clay loam	SICL		
1147377	1220248	1147377		fine sand	FS		
1147388	1221255	1147388		very gravelly loam	GRV-L	GRV-L	0.25
1147388	1221255	1147388	_	very gravelly sandy loam	GRV-SL		
1147388	1221255	1147388	3702095	very gravelly sandy loam	GRV-SL		
1147388	1221255	1147388	3702096	extremely gravelly sandy loam	GRX-SL		
1147388	1221255	1147388		very gravelly loamy sand	GRV-LS		
887096	1273322	887096		very gravelly loam	GRV-L	GRV-L	0.25
887096	1273322	887096	3900358	very gravelly loam	GRV-L		

col	сеу	chl	key	Soil Texture	1	Confining layer	XKSAT
887096	1273322	887096	3900359	very gravelly clay loam	GRV-CL		
887096		887096		very gravelly loam	GRV-L		
887096			3900361		IND		
887830	1273335	887830		very gravelly loam	GRV-L	GRV-L	0.25
887830	1273335	887830		very gravelly toam	GRV-L		
887830		887830		very gravelly clay loam	GRV-CL		
887830	1273335	887830		very gravelly loam	GRV-L		
887830	1273335	887830		indurated	IND		
888381	1273339	888381	3938680	gravelly sandy clay loam	GR-SCL	GR-SCL	0.04
888381	1273339	888381		gravelly sandy clay loam	GR-SCL	-	
888381	1273339	888381		clay loam	CL		<u>.</u>
888381	1273339	888381		very gravelly sandy loam	GRV-SL		
888381	1273339	888381		extremely gravelly loarny coarse sand	GRX-LCOS		
798389	1273352	798389		gravelly sandy loam	GR-SL	GR-SL	0.4
798389	1273352	798389		gravelly sandy loam	GR-SL		
798389	1273352	798389		sandy loam	SL	-	
798389	1273352	798389		extremely gravelly loarny sand	GRX-LS		
798389		798389		very gravelly loamy coarse sand	GRV-LCOS		
798389	1273380	798389		sandy loam	SL.	SL	0.4
798389	1273380	798389	-	loamy sand	LS		0.4
798389		798389		stratified loamy sand	SR-LS		
798389		798389		gravelly loamy sand	GR-LS		
798432	1273399	798432		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798432	1273399	798432		very gravelly sandy loam	GRV-SL	OIOC-OL	0.7
798432	1273399	798432		unweathered bedrock	UWB		
798426	1273433	798426		extremely cobbly loam	CBX-L	CBX-L	0.25
798426	1273433	798426		very gravelly loam	GRV-L	CBA-L	0.23
798426	1273433	798426		unweathered bedrock	UWB		
798501	1273510	798501		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798501	1273510	798501		very gravelly sandy loam	GRV-SL	OIOC-OL	0.4
798501	1273510	798501		unweathered bedrock	UWB		
798499	1273562	798499		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798499	1273562	798499		very gravelly sandy loam	GRV-SL	GRX-SL	0.4
798499		798499		unweathered bedrock	UWB		
798489	1273573	798489		extremely stony sandy loam	STX-SL	STX-SL	0.4
	1273573	798489		extremely gravelly sandy loam		31A-3L	0.4
798489	1273573	798489		indurated	GRX-SL IND		
798489	1273573	798489		unweathered bedrock	UWB	 	
798447	1273582	798447		gravelly sandy loam		CD et	0.4
798447	1273582	798447		gravelly sandy loam	GR-SL	GR-SL	0.4
798447	1273582	798447		gravelly sandy loam	GR-SL		
798447	1273582	798447		gravelly loam	GR-SL		
798447	1273582				GR-L		
798447	1273562	798447 798447	3902543		L CR CL	CDI	0.05
798447 798447	1273668	798447		gravelly sandy loam	GR-SL	GR-L	0.25
798447				gravelly loam	GR-L		
	1273668	798447		cemented	CEM		
798447	1273668	798447		extremely gravelly sandy loam	GRX-SL	00.01	
798439	1273682	798439		extremely gravelly coarse sandy loam	GRX-COSL	GR-SL	0.4
798439	1273682	798439		gravelly sandy loam	GR-SL		
798439	1273682	798439		gravelly sandy clay loam	GR-SCL		
798439	1273682	798439	3902935	gravelly clay loam	GR-CL		

col	кеу	chi	key	Soil Texture		Confining layer	XKSAT
798439	1273682	798439	3902936	fine sandy loam	FSL	<u> </u>	
798439	1273682	798439		sandy loam	SL		
798439	1273683	798439		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798439	1273683	798439		very gravelly fine sandy loam	GRV-FSL		
798439	1273683	798439		extremely gravelly sandy loam	GRX-SL		
798439	1273683	798439		indurated	IND		
798439	1273683	798439	3902966	extremely gravelly coarse sand	GRX-COS		
798433	1273791	798433		extremely cobbly loam	CBX-L	CBV-CL	0.04
798433	1273791	798433		very cobbly clay loam	CBV-CL		
798433	1273791	798433	3903773	very cobbly clay	CBV-C		
798433	1273791	798433	3903774	weathered bedrock	WB		
798433	1273791	798433	3903775	unweathered bedrock	UWB		
798408	1273831	798408	3903929	silt loam	SIL	SIL	0.15
798408	1273831	798408	3903930	silt loam	SIL		
798408	1273831	798408	3903931	silt loam	SIL		
798408	1273831	798408	3903932	silt loam	SIL		
798408	1273831	798408	3903933	clay loam	CL		
798408	1273831	798408	3903934	loam	L		
798410	1273858	798410	3903989	gravelly loam	GR-L	L	0.25
798410	1273858	798410	3903990	loam	L		
798410	1273858	798410	3903991	loam	L		
798410	1273858	798410	3903992	clay loam	CL		
798410	1273858	798410	3903993	clay loam	CL		
798410	1273858	798410	3903994	loam	L		
798410	1273858	798410	3903995	loam	L		
798410	1273858	798410	3903996	day	С		
1398223	1282243	1398223	3941191	very gravelly sandy loam	GRV-SL	GRV-L	0.25
1398223	1282243	1398223	3941192	very gravelly loam	GRV-L		
1398223	1282243	1398223	3941193	unweathered bedrock	UWB		
1398240	1282259	1398240	3941437	gravelly loamy sand	GR-LS	GR-SL	0.4
1398240	1282259	1398240	3941438	gravelly sandy loam	GR-SL		
1398240	1282259	1398240	3941439	gravelly sandy clay	GR-SC		
1398240	1282259	1398240	39414 4 0	gravelly sandy clay loam	GR-SCL		
1398240	1282259	1398240		very gravelly sand	GRV-S		
1398242	1282303	1398242	3941590	very stony loam	STV-L	STV-L	0.25
1398242			3941591	very gravelly loam	GRV-L		
1398242		1398242		unweathered bedrock	UWB		
1389782		1389782	-	extremely gravelly loam	GRX-L	GRX-L	0.25
1389782	1282307	1389782		very gravelly loam	GRV-L		
1389782	1282307	1389782	3941680	weathered bedrock	WB		
1389782		1389782		unweathered bedrock	UWB		
1398243		1398243		gravelly sandy loam	GR-SL	GR-L	0.25
1398243	1284792	1398243		gravelly loam	GR-L		
1398243	1284792	1398243		gravelly loam	GR-L		
1398243	1284792	1398243		indurated	IND		
1398243	1284792	1398243		extremely gravelly sand	GRX-S		
1398244	1286606	1398244		gravelly sandy loam	GR-SL	L	0.25
1398244					L		
1398244	1286606			indurated	IND		
1398244	1286610			sandy loam	SL	SL	0.4
1398244	1286610	1398244	3943898	sandy loam	SL]	

col	кеу	chl	key	Soil Texture		Confining layer	XKSAT
1398244	1286610	1398244		sandy clay loam	SCL	Comming tayor	7410711
1398244	1286610			coarse sandy loam	COSL		
1398244				sandy loam	SL	SL	0.4
1398244				sandy loam	SL	Ü	0.1
1398244	1286615			gravelly sandy loam	GR-SL		
1398244	1286615			gravelly sandy loam	GR-SL		
1398244				gravelly sandy loam	GR-SL		
1398244		1398244		extremely gravelly sandy loam	GRX-SL		
1389788				gravelly sandy loam	GR-SL	L.	0.25
1389788	1291889				L		
1389788				gravelly clay	GR-C		
1389788				weathered bedrock	WB		
1389788	1291889	1389788	3963280	unweathered bedrock	UWB		
1389788	1291893	1389788	•	extremely gravelly loam	GRX-L	GRX-L	0.25
1389788	1291893	1389788		very gravelly loam	GRV-L		
1389788		1389788		weathered bedrock	WB		
1389788	1291893	1389788		unweathered bedrock	UWB		
1400382	1292044	1400382	3947029	extremely cobbly loam	CBX-L	CBX-CL	0.04
1400382	1292044			extremely cobbly clay loam	CBX-CL		
1400382	1292044			extremely cobbly clay	CBX-C		
1400382	1292044	1400382		extremely flaggy clay	FLX-C		
1400382	1292044	1400382	3947038	unweathered bedrock	UWB		
1398220	1292380	1398220	3948226	very gravelly loamy sand	GRV-LS	GRV-SCL	0.06
1398220	1292380	1398220	3948227	very gravelly sandy clay loam	GRV-SCL		
1398220	1292380	1398220	3948228	very gravelly loam	GRV-L		
1398220	1292380	1398220	3948229	very gravelly sandy loam	GRV-SL		
1398220	1292396	1398220	3948254	very gravelly loarny sand	GRV-LS	GRV-SCL	0.06
1398220	1292396	1398220	3948255	very gravelly sandy clay loam	GRV-SCL		
1398220	1292396	1398220	3948256	very gravelly sandy loam	GRV-SL		
1398220	1292396	1398220	3948257	gravelly loamy sand	GR-LS		
1398220	1292396	1398220	3948258	gravelly loam	GR-L		
1398220	1292402	1398220	3948286	very gravelly sandy loam	GRV-SL	GRV-C	0.01
1398220	1292402	1398220	3948290	very gravelly clay	GRV-C		
1398220	1292402	1398220	3948287	very gravelly clay	GRV-C		
1398220	1292402	1398220	3948288	very gravelly sandy clay	GRV-SC		
1398220	1292402	1398220	3948289	very gravelly loam	GRV-L		
1398274	1292512	1398274	3963314	sandy loam	SL	SCL	0.06
1398274		1398274	3963313	sandy clay loam	SCL		
1398274	1292512	1398274	3963312	sandy clay loam	SCL		
1398274					L		
1398274	1292513			sandy loam	SL	SL	0.4
1398274				sandy loam	SL		
1398274				very gravelly sandy loam	GRV-SL		
1398275		1398275			L	С	0.01
1398275	1292554		3949258		С		
1398275	1292554	1398275	3949257	clay	С		
1398275			3949256		С		
1398275				cemented	CEM		
1398275	- 1			gravelly sandy loam	GR-SL	GR-SL	0.4
1398275	1292555			gravelly sandy loam	GR-SL		
1398275	1292555	1398275	3948995	very gravelly sandy loam	GRV-SL		

co	key	ch	key	Soil Texture		Confining layer	XKSAT
1398275	1292555			gravelly sandy loam	GR-SL	Comming rayor	AROAT
1398275				indurated	IND		
1398276				extremely gravelly loam	GRX-L	GRX-L	0.25
1398276				very gravelly fine sandy loam	GRV-FSL	OIOC-L	0.25
1398276				cemented	CEM		•
1398276				indurated	IND		
1398276	1292747	1398276		extremely gravelly sandy loam	GRX-SL	L	0.25
1398276	1292747		3949281		L		0.20
1398276		1398276		cobbly loam	CB-L		
1398276		1398276		The state of the s	IND		
1398276				very gravelly sandy loam	GRV-SL	GR-L	0.25
1398276		1398276		gravelly loam	GR-L	OK-L	0.20
1398276	1292748			very cobbly fine sandy loam	CBV-FSL		
1398276	1292748	1398276		very cobbly fine sandy loam	CBV-FSL		
1398276	1292748			cemented	CEM		
798388	1292759	798388		sandy loam	SL	SL	0.4
798388	1292759	798388		sandy loam	SL	JL	0.4
798388		798388		gravelly sandy clay loam	GR-SCL		
798388	1292759	798388		gravelly sandy loam	GR-SCL GR-SL		
798388	1292759	798388		very gravelly loamy sand	GR-SL GRV-LS		
798411	1292776	798411		very cobbly fine sandy loam	CBV-FSL	CB I	0.05
798411	1292776	798411		cobbly toam		CB-L	0.25
798411	1292776	798411	3949335		CB-L C		
798411	1292776	798411		cobbly clay			
798411	1292776	798411		unweathered bedrock	CB-C		
1146330	1297435	1146330		sandy loam	UWB		
1146330	1297435	1146330		sandy clay loam	SL	SCL	0.06
1146330	1297435	1146330		sandy clay loam sandy clay loam	SCL		
1146330	1297435	1146330	3963318		SCL		
1147390	1304641	1147390		gravelly sandy loam	L CD CI	00.1	
1147390	1304641	1147390		gravelly loam	GR-SL	GR-L	0.25
1147390	1304641	1147390		cemented	GR-L		
1147390	1304641	1147390			CEM		<u>.</u>
889257	1312578	889257		extremely gravelly loarny coarse sand	GRX-LCOS		
889257		889257		sandy loam	SL	SCL	0.06
889257 889257				sandy clay loam	SCL		
	1312578	889257		coarse sandy loam	COSL	00.00	
1507873	1382903	1507873		gravelly sandy loam	GR-SL	GR-SL	0.4
1507873	1382903	1507873		gravelly sandy loam	GR-SL		
1507873	1382903	1507873		sandy loam	SL		
1507873	1382903	1507873		extremely gravelly loarny sand	GRX-LS		
	1382903	1507873		very gravelly toarny coarse sand	GRV-LCOS		
1507873		1507873		sandy loam	SL	SL	0.4
1507873	1382904	1507873		loamy sand	LS		
1507873	1382904	1507873		stratified loarny sand	SR-LS		·
1507873	1382904	1507873		gravelly loamy sand	GR-LS		
1507884	1382906	1507884		extremely gravelly loamy sand	GRX-LS	GRX-LS	1.2
1507884	1382906	1507884		extremely gravelly loamy sand	GRX-LS		
1507884	1382906	1507884		extremely gravelly sand	GRX-\$	I	
1507892	1382908	1507892		extremely gravelly silt loam	GRX-SIL	GRX-SIL	0.15
1507892	1382908	1507892		gravelly loam	GR-L		
1507892	1382908	1507892	4323716	very gravelly loam	GRV-L		

cok	cey	chi	key	Soil Texture		Confining layer	XKSAT
1507892				extremely gravelly loamy sand	GRX-LS	Comming layer	ANOAT
1507892	1382908			very gravelly sandy loam	GRV-SL		
1507892	1382908			very gravelly loamy sand	GRV-SL GRV-LS		
1507892	1382909			very cobbly sandy loam		CDV CI	0.45
1507892	1382909	1507892	-	very gravelly sandy loam	CBV-SL GRV-SL	CBV-SL	0.15
1507892	1382909			very cobbly loamy sand			
1507892	1382909			very gravelly loamy sand	CBV-LS GRV-LS		
1507892	1382909						
1507996	1382910			very gravelly sand	GRV-S	601	0.00
1507906	1382910			sandy loam	SL	SCL	0.06
1507906	1382910			sandy clay loam	SCL		
1507900	1382913			coarse sandy loam	COSL		
1507912				very cobbly sandy clay loam	CBV-SCL	С	0.01
1507912	1382913		4323736		С		
1507912			4323733		С		
II				weathered bedrock	WB		
1507912				unweathered bedrock	UWB		
1507915				gravelly sandy loam	GR-SL	GR-L	0.25
1507915				gravelly loam	GR-L		
1507915		-		cemented	CEM		
l 	1382915			extremely gravelly loamy coarse sand	GRX-LCOS	-	
1507917				very cobbly loam	CBV-L	CL	0.04
1507917	1382916	1507917		clay loam	CL		
1507917	1382916		4323743		C		
1507917	1382916	1507917		unweathered bedrock	UWB	00.010	
1507917	1382917	1507917		very cobbly silty clay loam	CBV-SICL	CB-SIC	0.02
1507917 1507917	1382917 1382917	1507917 1507917		cobbly silty clay	CB-SIC		
1507917	1382917		4323750		С		
1507917	1382917	1507917 1507917	4323747	clay loam	C	-	
1507917		1507917		unweathered bedrock	CL UWB		
1507917	1382918	1507918		very cobbly loam		CI	0.04
1507918		1507918			CBV-L	CL	0.04
1507918				clay loam	CL		
 	1382918				C		
1507918			4323755	unweathered bedrock	UWB		0.05
1507921	1382920	1507921	4323759		C	L	0.25
1507921	1382920	1507921	4323756		C	-	
1507921	1382920	1507921		gravelly clay loam			
1507921	1382920	1507921			GR-CL	-	
1507921	1382920	1507921		weathered bedrock unweathered bedrock	WB		
1507921	1382921	1507921			UWB	CBVI	0.25
1507921	1382921	1507921		very gravelly sandy form	GRV-L	GRV-L	0.25
1507921	1382921	1507921		very gravelly sandy loam	GRV-SL	 	
1507921	1382921			weathered bedrock	WB		
1507921	1382924	1507921 1507928		unweathered bedrock gravelly sandy loam	UWB CD SI		0.4
1507928	1382924	1507928		sandy loam	GR-SL SL	SL	0.4
1507928	1382924	1507928		gravelly sandy loam			
1507928	1382924	1507928		gravelly sandy loam	GR-SL	 	····
1507928	1382924	1507928			GR-SL		
1507928	1382924			gravelly coarse sandy loam	GR-COSL		
1507928		1507928		very gravelly loamy sand	GRV-LS	00.01	0.4
190/928	1382925	1507928	4323//6	gravelly sandy loam	GR-SL	GR-SL	0.4

col	сеу	chi	key	Soil Texture		Confining layer	XKSAT
1507928	1382925	1507928	4323777	gravelly sandy loam	GR-SL	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
1507928		1507928		sandy loam	SL.		
1507928		1507928	· · · · ·	extremely gravelly loamy sand	GRX-LS		
1507928				very gravelly loarny coarse sand	GRV-LCOS		
1507929				gravelly loamy sand	GR-LS	SL	0.4
1507929	1382926			sandy loam	SL		
1507929	1382926			sandy loam	SL		
1507929	1382926	1507929		sandy loam	SL		**
1507929	1382926	1507929		gravelly sandy loam	GR-SL		
1507929	1382926	1507929		very gravelly sandy loam	GRV-\$L		
1507929	1382926			very gravelly sandy loam	GRV-SL		
1507936	1382928	1507936		gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
1507936	1382928	1507936		very gravelly sandy loam	GRV-SL		
1507936	1382928	1507936		weathered bedrock	WB		
1507936	1382928	1507936		unweathered bedrock	UWB		····
1507996		1507996		gravelly sandy loam	GR-SL	L	0.25
1507996		1507996	4323796		L		0.20
1507996		1507996		gravelly clay	GR-C	 	
1507996		1507996		weathered bedrock	WB		
1507996	1382930	1507996		unweathered bedrock	UWB		
1507996	1382932	1507996		extremely cobbly coarse sandy loam	CBX-COSL	CBX-COSL	0.4
1507996	1382932	1507996		gravelly coarse sandy loam	GR-COSL	OBX-OCCE	V.T
1507996	1382932	1507996		weathered bedrock	WB		
1507996	1382932	1507996		unweathered bedrock	UWB		
1507947	1382933	1507947		very gravelly loamy sand	GRV-LS	GRV-SCL	0.06
1507947	1382933	1507947	*	very gravelly sandy clay loam	GRV-SCL	OITV-OOL	0.00
1507947	1382933	1507947		very gravelly loam	GRV-L		
1507947	1382933	1507947		very gravelly sandy loam	GRV-SL		
1507947	1382934	1507947		very gravelly loamy sand	GRV-LS	GRV-SCL	0.06
1507947	1382934	1507947		very gravelly sandy clay loam	GRV-SCL	OIW-OOL	0.00
1507947	1382934	1507947		very gravelly sandy loam	GRV-SL		
1507947	1382934	1507947		gravelly loamy sand	GR-LS		
1507947	1382934	1507947		gravelly loam	GR-L		·····
1507947	1382935	1507947		very gravelly sandy loam	GRV-SL	GRV-C	0.01
1507947				very gravelly clay	GRV-GE GRV-C	J14-0	V.V I
1507947	1382935	1507947		very gravelly clay	GRV-C		
1507947	1382935	1507947		very gravelly sandy clay	GRV-SC		
1507947	1382935	1507947		very gravelly loam	GRV-5C		
1508001	1382937	1508001		gravelly sandy loam	GR-SL	GRV-SCL	0.06
1508001	1382937	1508001		very gravelly sandy clay loam	GRV-SCL	OI TOOL	0.00
1508001	1382937	1508001		weathered bedrock	WB		
1508001	1382937	1508001		weathered bedrock	WB	-	
1508002	1382938	1508002		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
1508002	1382938	1508002		extremely cobbly sandy loam	CBX-SL	GIXV-OL	U.4
1508002	1382938	1508002		weathered bedrock	WB		
1508002	1382938	1508002		unweathered bedrock	UWB		
1508002	1382939	1508002		gravelly sandy loam	GR-SL	GR-SL	0.4
1508002	1382939	1508002		extremely gravelly sandy loam	GRX-SL	GIA-OL.	V. *
1508002	1382939	1508002		very cobbly sandy clay loam	CBV-SCL		
1508002	1382939	1508002		weathered bedrock	WB		
1507954	1382940	1507954				CDV 61	0.4
1001904	1302840	1007904	40Z303U	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4

col	кеу	ch	key	Soil Texture		Confining layer	XKSAT
1507954	1382940	1507954	4323831	very gravelly sandy loam	GRV-SL		
1507954	1382940	1507954		unweathered bedrock	UWB		
1507967	1382944	1507967		very gravelly sandy loam	GRV-SL	GRV-L	0.25
1507967	1382944	1507967		very gravelly loam	GRV-L		
1507967	1382944	1507967		unweathered bedrock	UWB		
1507969	1382945	1507969	4323839	extremely cobbly sandy loam	CBX-SL	GRV-SCL	0.06
1507969	1382945	1507969	4323840	very gravelly sandy clay loam	GRV-SCL		
1507969	1382945	1507969	4323841	weathered bedrock	WB		
1507969	1382946	1507969	4323843	very gravelly sandy loam	GRV-SL	sc	0.02
1507969	1382946	1507969		sandy clay	SC		
1507969	1382946	1507969		sandy clay	SC		
1507969	1382946	1507969		gravelly sandy clay	GR-SC	***	
1507969	1382946			weathered bedrock	WB		
1507969	1382946		4323847	unweathered bedrock	UWB		
1507970		1507970		extremely cobbly sandy loam	CBX-SL	GRV-SCL	0.06
1507970				very gravelly sandy clay loam	GRV-SCL		
1507970				weathered bedrock	WB	 	
1507970				gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
1507970		1507970		very gravelly sandy loam	GRV-SL	OIT OOOL	V.T
1507970		1507970		weathered bedrock	WB		
	1382949			unweathered bedrock	UWB		
1507979		1507979		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
1507979		1507979		very gravelly sandy loam	GRV-SL	Grot-GE	. 0.7
1507979		1507979		unweathered bedrock	UWB		
1507984		1507984		very cobbly loam	CBV-L	CBV-L	0,25
1507984		1507984		extremely gravelly loam	GRX-L	OBV-L	0.23
1507984	1382952	1507984		indurated	IND		
1507984	1382952	1507984		unweathered bedrock	UWB		
1507999	1382953	1507999		extremely stony loam	STX-L	CBV-SIL	0.15
1507999	1382953	1507999		very cobbly silf loam	CBV-SIL	ODV-OIL	0.10
1507999	1382953	1507999		very cobbly loam	CBV-SIL		
1507999	1382953	1507999		very cobbly sandy loam	CBV-SL		
1507999	1382954	1507999		extremely cobbly sandy loam	CBV-SL	CBX-SL	0.4
1507999		1507999		very cobbly sandy loam	CBX-SL	CDA-SL	0.4
1507999		1507999		indurated	IND		
1507999		1507999		unweathered bedrock	UWB		
1508000		1508000		sandy loam	SL	SCL	O OE
1508000		1508000		sandy clay loam	SCL	JOL	0.06
1508000	1382955	1508000		gravelly coarse sandy loam	GR-COSL		
1508000	-	1508000	4323873		L CR-COSE	 	
1508000		1508000		sandy loam		<u> </u>	n 4
1508000		1508000		sandy loam	SL	SL	0.4
1508000		1508000		sandy loam	SL SCI		
1508000	1382957			unweathered bedrock	SCL		
		1508000			UWB	- CC;	0.00
1507994	1382959	1507994		gravelly loamy sand	GR-LS	SCL	0.06
1507994	1382959	1507994		sandy clay loam	SCL		
1507994	1382959	1507994		sandy clay	SC		
1507994	1382959	1507994		gravelly sandy clay loam	GR-SCL		
1507994	1382959	1507994		gravelly loamy sand	GR-LS		
1507993	1382960	1507993		very gravelly loamy sand	GRV-LS	GRV-SCL	0.06
1507993	1382960	1507993	4323890	very gravelly sandy clay loam	GRV-SCL	l	

col	кеу	ch	key	Soil Texture		Confining layer	XKSAT
1507993	1382960	1507993	4323888	gravelly clay	GR-C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1507993	1382960	1507993	4323891	clay	С		
1507993	1382960	1507993	4323892	gravelly sandy clay loam	GR-SCL		
1507993	1382960	1507993	4323893	gravelly loamy sand	GR-LS		
1507991	1382961	1507991	4323894	very gravelly loam	GRV-L	GRV-L	0.25
1507991	1382961	1507991	4323895	very gravelly loam	GRV-L		
1507991	1382961	1507991	4323896	veғy gravelly clay loam	GRV-CL		
1507991	1382961	1507991	4323897	very gravelly loam	GRV-L		
1507991	1382961	1507991	4323898	indurated	IND		
1507998	1382962	1507998	4323899	silty clay loam	SICL	SR- SIC	0.02
1507998	1382962	1507998	4323904	stratified silty clay	SR- SIC		
1507998	1382962	1507998	4323902	silt loam	SIL		
1507998	1382962	1507998	4323900	stratified silty clay	SR- SIC		
1507998	1382962	1507998	4323903	silty clay loam	SICL		
1507998	1382962	1507998	4323901	fine sand	FS		<u></u>
1507924	1383019	1507924	4324149	very gravelly loam	GRV-L	GRV-L	0.25
1507924	1383019	1507924	4324150	very gravelly sandy loam	GRV-SL		
1507924	1383019	1507924	4324151	very gravelly sandy loam	GRV-SL		
1507924	1383019	1507924	4324152	extremely gravelly sandy loam	GRX-SL		
1507924	1383019	1507924	4324153	very gravelly loarny sand	GRV-LS		
1507988	1385997	1507988	4337017	gravelly loamy sand	GR-LS	GR-SL	0.4
1507988	1385997	1507988	4337018	gravelly sandy loam	GR-SL		
1507988	1385997	1507988	4337019	gravelly sandy clay	GR-SC		
1507988	1385997	1507988	4337020	gravelly sandy clay loam	GR-SCL		
1507988	1385997	1507988	4337021	very gravelly sand	GRV-S		
1507956	1393798	1507956	4373024	very stony loam	STV-L	STV-L	0.25
1507956	1393798	1507956	4373025	very gravelly loam	GRV-L		•
1507956	1393798	1507956	4373026	unweathered bedrock	UWB		
1507939	1393967	1507939	4374162	gravelly sandy loam	GR-SL	GR-SL	0.4
1507939	1393967	1507939	4374161	gravelly sandy loam	GR-SL		
1507939	1393967	1507939		very gravelly loamy coarse sand	GRV-LCOS		
1507939	1393967	1507939	4374163	gravelly sandy clay loam	GR-SCL	-	



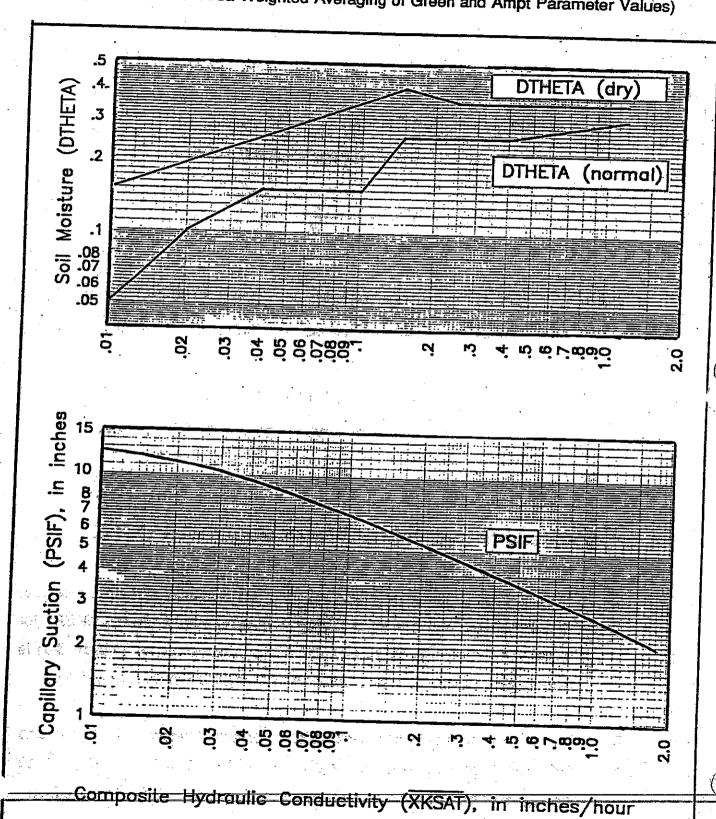
0.0215 598820.46 13MileWash-01 0.35 4.8 0.7827 21820460.19 13MileWash-02 0.39 5.8 1.5852 44191903.32 13MileWash-03 0.38 5.4 4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.27 0.16 0.20 0.26 0.17 0.18 0.23 0.21 0.16
0.7827 21820460.19 13MileWash-02 0.39 5.8 1.5852 44191903.32 13MileWash-03 0.38 5.4 4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.16 0.20 0.26 0.17 0.18 0.23 0.21
1.5852 44191903.32 13MileWash-03 0.38 5.4 4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.20 0.26 0.17 0.18 0.23 0.21
4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.26 0.17 0.18 0.23 0.21
1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.17 0.18 0.23 0.21
4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.18 0.23 0.21
0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.23 0.21
0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.21
0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	
0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.16
6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	
0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.38
0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.21
	0.15
0 1314 3664221 00 13MiloMachD 14 02 022 75	0.11
0.1314 3664221.00 13MileWashB-1A-03 0.32 7.5	0.09
0.0439 1222874.48 13MileWashB-1B-01 0.37 6.6	0.12
0.0675 1882302.92 13MileWashB-1B-02 0.35 7.2	0.10
0.1147 3198738.21 13MileWashB-1C-01 0.35 7	0.10
0.0593 1654372.26 13MileWashB-1C-02 0.36 5.2	0.22
0.0375 1046016.37 13MileWashC-01 0.35 4.2	0.37
1.7953 50050905.12 13MileWashC-02 0.39 5.8	0.16
1.1533 32152693.93 13MileWashC-03 0.39 5.8	0.17
5.3401 148873841.13 13MileWashC-04 0.35 4.5	0.30
13.8253 385428429.67 13MileWashCmisc-01 0.35 4.6	0.28
11.6593 325043962.49 13MileWashCmisc-02 0.35 5	0.24
0.9269 25841320.16 Cerbat-01 0.4 6.2	0.14
3.6691 102289951.81 Cerbat-02 0.38 5.5	0.18
10.0830 281098232.37 cerbat-03 0.36 5	0.23
0.5285 14734078.89 CerbatTrib1A-01 0.35 7.2	0.10
0.8467 23604562.69 CerbatTribA-02 0.39 5.8	0.17
0.0269 751192.67 SacTrib6-01 0.35 4.2	0.36
0.0516 1439773.07 SacTrib6-02 0.35 4.5	0.31
0.2335 6510759.79 SacTrib6-03 0.36 5.2	0.22
0.4200 11708838.00 SacTrib6-04 0.36 5	0.24
19.5342 544582702.21 SacTrib6-05 0.37 5.4	0.20
0.2913 8119810.41 SacTrib6C-01 0.305 7.9	0.08
0.1827 5092941.65 SacTrib6C-02 0.29 8.4	0.06
0.2074 5781644.19 SacTrib6C-03 0.305 7.9	0.08
0.2518 7020344.16 SacTrib6C-04 0.32 7.5	0.08
0.2913 8120158.58 Sactrib6D-01 0.27 8.2	0.06
0.4351 12130144.53 SacTrib6D-02 0.27 8.2	0.06
0.6352 17707406.05 SacTrib6misc-01 0.29 8.4	0.06
0.3570 9951908.11 13MileWashE-03 0.35 4.1	0.40
1.2132 33823072.41 MolyMosesA-02 0.35 4.9	0.25
3.8747 108020770.80 HolyMosesA-03 0.35 4.4	0.33
7.8524 218911672.67 HolyMosesA-04 0.39 5.8	0.17
4.2697 119031114.50 HolyMosesA-05 0.35 4.3	0.34
13.3273 371544655.60 HolyMosesA-07 0.35 4.4	0.31
1.1335 31599959.82 Offsite Diverted-01 0.36 5.2	0.23
0.1161 3237668.17 Offsite Diverted-02 0.37 5.3	0.21
4.8070 134011258.03 SacWashA-02 0.4 6.2	0.14
0.4226 11782476.84 SacWashA-03 0.4 6	0.15

Arga (ag mai)	Annual	DAOIN TVT			12222
Area (sq mi)	Area1	BASIN_TXT	Dtheta	PSIF	XKSAT
2.1252	59246948.06	SacWashA-04	0.35	7.2	0.10
3.2534	90699043.03	SacWashA-05	0.32	7.5	0.08
1.0804	30119664.05	SacWashA-06	0.39	6.4	0.13
9.8410	274352090.03	SacWashA-07	0.36	6.8	0.12
8.1490	227180971.21	HolyMosesA-06	0.4	6	0.15
5.1930	144771184.51	SacWashA08	0.305	7.9	0.07
8.2644	230397565.60	HolyMosesA-04	0.39	5.8	0.17
10.2545	285879402.73	SacWashA-09	0.37	6.6	0.13
2.7732	77312465.22	SacWashA-10	0.39	6.4	0.14
13.9298	388340569.95	SacWashA-11	0.305	7.9	0.07
18.2356	508380337.44	SacWashA-12	0.4	6	0.15
5.3076	147968686.67	SacWashB-01	0.39	6.4	0.14
10.3994	289918143.24	SacWashC-01	0.38	5.4	0.20
9.6297	268461945.80	SacWashC-02	0.35	4.9	0.26
14.1515	394520757.54	SacWashD-01	0.39	5.8	0.16
1.0617	29599748.90	13MileWashE-01	0.305	7.9	0.08
19.2803	537503459.73	HolyMosesA-08	0.4	6	0.16
2.0957	58425519.68	SacWashE-01	0.35	5	0.25
3.2959	91885234.73	HolyMosesA_01	0.35	4.1	0.39
4.4406	123797707.70	SacWashA_01	0.35	4.5	0.30
1.9345	53931988.07	13MileWashD_02	0.35	4.1	0.40

FIGURE 3-3

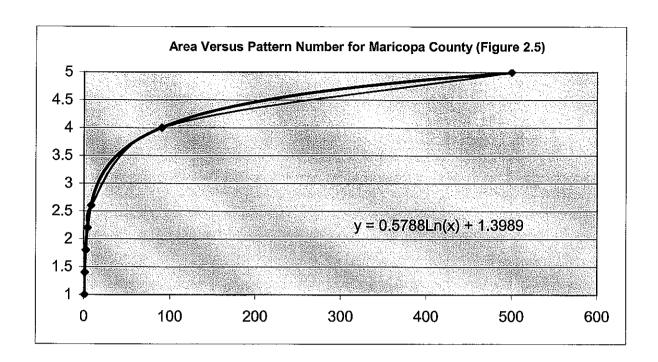
COMPOSITE VALUES OF PSIF AND DTHETA AS A FUNCTION OF XKSAT

(To be used for Area Weighted Averaging of Green and Ampt Parameter Values)



Drainage Design Manual for Maricopa County, AZ (Hydrology:Rainfall) Table 2.4 (6-Hour Distributions)

	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Locati on	Area (sq mi)	Weight	ed rain	Pattern
0	0.0%	0.0%	0.0%	0.0%	0.0%	0	, , ,	6hr	24hr	
15	0.8%	0.9%	1.5%	2.1%	2.4%	Α	120.95	3.19	4.28	
30	1.6%	1.6%	2.0%	3.5%	4.3%	В	1.06	3.04	4.20	1.43
45	2.5%	2.5%	3.0%	5.1%	5.9%	С	70.71	3.07	4.24	3.86
60	3.3%	3.4%	4.8%	7.1%	7.8%	D	16.86	3.09	4.25	3.03
75	4.1%	4.2%	6.3%	8.7%	9.8%	E	19.95	3.07	4.26	3.13
90	5.0%	5.1%	7.6%	10.5%	11.9%	F	13.83	3.06	4.25	2.92
105	5.8%	5.9%	9.0%	12.5%	14.1%	G	0.36	2.99	4.17	0.80
120	6.6%	6.7%	10.5%	14.3%	16.2%	Н	58.39	3.13	4.39	3.75
135	7.4%	7.6%	11.9%	16.0%	18.6%	J	2.10	2.99	4.15	1.83
150	8.7%	8.7%	13.5%	17.9%	21.2%	K	0.12	2.98	4.16	0.15
165	9.9%	10.0%	15.2%	20.1%	23.9%	L	1.13	2.98	4.15	1.47
180	ւ11.8%	12.0%	17.5%	23.2%	27.1%	М	72.81	3.07	4.24	3.88
195	13.8%	16.3%	22.2%	28.1%	32.1%	N	134.49	3.09	4.30	4.24
210	21.6%	25.2%	30.4%	36.4%	40.8%	Q	274.99	3.14	4.29	4.65
225	37.7%	45.1%	47.2%	50.0%	51.5%					
240	83.4%	69.4%	67.0%	65.8%	62.7%					
255	91.1%	83.7%	79.6%	77.3%	73.5%					
270	93.1%	90.0%	86.8%	84.1%	81.4%					
285	95.0%	93.8%	91.2%	88.8%	86.4%					
300	96.2%	95.0%	94.6%	92.7%	90.7%					
315	97.2%	96.3%	96.0%	94.5%	93.0%					
330	98.3%	97.5%	97.3%	96.4%	95.4%					
345	99.1%	98.8%	98.7%	98.2%	97.7%					
360	100.0%	100.0%	100.0%	100.0%	100.0%					



Area-Depth Factor

Location	Area (sq mi)	6-hr	24-hr	
Α	133.97		0.837	
В	1.06	0.987		
С	70.71	0.833	0.863	
D	16.86	0.919	0.928	
E	19.95	0.910	0.918	
F	13.83	0.929		
G	0.36	0.996		
H	58.39	0.848	0.871	
J	2.10	0.975		
K	0.12	0.993		
L	1.13	0.986	·	
М	72.81	0.831	0.861	
N	134.49		0.837	
Q	274.99		0.809	
J-HolyMoses-02	53.29	0.854	0.875	use percip from H
J-S26	0.95	0.988	0.995	<u> </u>
J-MG1	1.45	0.984		
JN-5	0.54	0.993		

6-Hour Duration	on (Table 2.1)	24-Hour Distrib	ution (Table2.2)
0	1.000	0	1
0.5	0.994	10	0.95
1	0.987	20	0.918
2.8	0.975	30	0.9
5	0.960	40	0.887
10	0.940	50	0.877
16	0.922	60	0.87
20	0.910	70	0.863
30	0.890	80	0.857
40	0.870	90	0.852
90	0.810	100	0.848
100	0.800	110	0.845
		120	0.841
		130	0.838
		140	0.835
		150	0.832
		200	0.82
		250	0.812
		300	0.806
		400	0.796
		500	0.783

0.10	*4 - 1*	531.4.31	4.					<u> </u>			·	ī	1
6-hr Precip													$\vdash \downarrow$
0	В	С	D	E	F	G	Н	J	K	L	M	N	Q
Pattern	1.43	3.86	3.03	3.13	2.92	0.80	3.75	1.83	0.15	1.47	3.88	4.24	4.65
Precip (in)	3.04	3.07	3.09	3.07	3.06	2.99	3.13	2.99	2.98	2.98	3.07	3.09	3.14
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.03	0.06	0.05	0.05	0.04	0.02	0.06	0.02	0.02	0.03	0.06	0.04	0.09
30	0.05	0.10	0.06	0.07	0.06	0.05	0.10	0.05	0.05	0.05	0.10	0.04	0.18
45	0.08	0.15	0.09	0.10	0.09	0.07	0.14	0.07	0.07	0.07	0.15	0.07	0.21
60	0.10	0.21	0.15	0.16	0.14	0.10	0.20	0.10	0.10	0.10	0.21	0.13	0.25
75	0.13	0.26	0.20	0.20	0.19	0.12	0.25	0.12	0.12	0.12	0.26	0.17	0.36
90	0.15	0.31	0.24	0.25	0.23	0.15	0.31	0.15	0.15	0.15	0.31	0.20	0.44
105	0.18	0.37	0.28	0.29	0.27	0.17	0.36	0.17	0.17	0.17	0.37	0.24	0.52
120	0.20	0.42	0.33	0.34	0.31	0.20	0.42	0.20	0.20	0.20	0.43	0.28	0.61
135	0.23	0.47	0.37	0.38	0.35	0.22	0.47	0.22	0.22	0.22	0.48	0.31	0.75
150	0.26	0.53	0.42	0.43	0.40	0.26	0.53	0.26	0.26	0.26	0.53	0.34	0.91
165	0.30	0.60	0.48	0.49	0.45	0.30	0.59	0.30	0.30	0.30	0.60	0.38	1.03
180	0.36	0.69	0.55	0.56	0.52	0.35	0.68	0.35	0.35	0.35	0.69	0.45	1.12
195	0.45	0.84	0.69	0.71	0.66	0.41	0.83	0.40	0.41	0.45	0.84	0.59	1.28
210	0.70	1.09	0.95	0.96	0.91	0.65	1.09	0.63	0.64	0.69	1.10	0.84	1.60
225	1.24	1.52	1.46	1.46	1.44	1.13	1.54	1.09	1.12	1.23	1.52	1.42	1.70
240	2.35	2.03	2.07	2.05	2.05	2.49	2.07	2.56	2.49	2.29	2.02	2.14	1.65
255	2.67	2.38	2.46	2.43	2.44	2.72	2.44	2.76	2.72	2.61	2.38	2.55	1.94
270	2.79	2.59	2.68	2.65	2.66	2.78	2.65	2.80	2.78	2.73	2.59	2.75	2.33
285	2.87	2.74	2.82	2.79	2.79	2.84	2.80	2.84	2.83	2.82	2.73	2.87	2.51
300	2.90	2.86	2.92	2.90	2.90	2.88	2.92	2.88	2.87	2.85	2.85	2.97	2.68
315	2.94	2.91	2.97	2.94	2.94	2.91	2.97	2.91	2.90	2.89	2.91	3.00	2.80
330	2.97	2.97	3.01	2.98	2.98	2.94	3.02	2.94	2.93	2.92	2.96	3.03	2.91
345	3.00	3.02	3.05	3.03	3.02	2.96	3.08	2.96	2.96	2.95	3.02	3.06	3.03
360	3.04	3.07	3.09	3.07	3.06	2.99	3.13	2.99	2.98	2.98	3.07	3.09	3.14

27 111 1 10	cipitati	on Distri								
			A	C	D	E	H	M	N	Q
_	0.01	Varicop	4.28	4.24	4.25	4.26	4.39	4.24	4.30	4.29
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.25	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.5	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.75	0.00	0.01	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03
1	0.00	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1.25	0.00	0.01	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1.5	0.00	0.02	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1.75	0.00	0.02	0.09	0.08	0.09	0.09	0.09	80.0	0.09	0.09
2	0.00	0.02	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2.25	0.00	0.03	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
2.5	0.00	0.03	0.12	0.12	0.12	0.12	0.13	0.12	0.12	0.12
2.75	0.00	0.03	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
3	0.00	0.04	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
3.25	0.00	0.04	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16
3.5	0.00	0.04	0.18	0.17	0.17	0.17	0.18	0.17	0.18	0.18
3.75	0.00	0.04	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
4	0.00	0.05	0.21	0.20	0.20	0.20	0.21	0.20	0.21	0.21
4.25	0.00	0.05	0.22	0.22	0.22	0.22	0.23	0.22	0.22	0.22
4.5	0.00	0.06	0.24	0.24	0.24	0.24	0.25	0.24	0.24	0.24
4.75	0.00	0.06	0.26	0.25	0.26	0.26	0.26	0.25	0.26	0.26
5	0.00	0.06	0.27	0.27	0.27	0.27	0.28	0.27	0.28	0.27
5.25	0.00	0.07	0.29	0.29	0.29	0.29	0.30	0.29	0.29	0.29
5.5	0.00	0.07	0.31	0.31	0.31	0.31	0.32	0.31	0.31	0.31
5.75	0.00	0.08	0.33	0.32	0.32	0.32	0.33	0.32	0.33	0.33
6	0.00	0.08	0.34	0.34	0.34	0.34	0.35	0.34	0.34	0.34
6.25	0.00	0.09	0.36	0.36	0.36	0.36	0.37	0.36	0.37	0.36
6.5	0.00	0.09	0.39	0.38	0.38	0.38	0.40	0.38	0.39	0.39
6.75	0.00	0.10	0.41	0.40	0.40	0.40	0.42	0.40	0.41	0.41
7	0.00	0.10	0.43	0.42	0.43	0.43	0.44	0.42	0.43	0.43
7.25	0.00	0.11	0.45	0.45	0.45	0.45	0.46	0.45	0.45	0.45
7.5	0.00	0.11	0.47	0.47	0.47	0.47	0.48	0.47	0.47	0.47
7.75	0.00	0.11	0.47	0.49	0.49	0.47	0.40	0.49	0.49	0.49
	0.00	0.12	0.49	0.49	0.43	0.43	0.53	0.49	0.52	0.43
8 8.25		0.12	0.54	0.51	0.54	0.54	0.55	0.53	0.52	0.54
	0.00			0.56					0.57	0.54
8.5 9.75		0.13	0.57		0.57	0.57	0.58	0.56		
8.75	0.00	0.14	0.60	0.59	0.60	0.60	0.62	0.59	0.60	0.60
9	0.00	0.15	0.63	0.62	0.62	0.63	0.65	0.62	0.63	0.63
9.25	0.00	0.16	0.66	0.66	0.66	0.66	0.68	0.66	0.67	0.66
9.5	0.00	0.16	0.70	0.69	0.69	0.69	0.72	0.69	0.70	0.70
9.75	0.00	0.17	0.74	0.73	0.73	0.73	0.76	0.73	0.74	0.74
10	0.00	0.18	0.77	0.77	0.77	0.77	0.80	0.77	0.78	0.78
10.25	0.00	0.19	0.82	0.81	0.81	0.81	0.84	0.81	0.82	0.82
10.5	0.00	0.20	0.87	0.86	0.86	0.86	0.89	0.86	0.87	0.87
10.75	0.00	0.22	0.93	0.92	0.93	0.93	0.96	0.92	0.94	0.94
11	0.00	0.24	1.01	1.00	1.00	1.01	1.04	1.00	1.01	1.01
11.25	0.00	0.26	1.10	1.09	1.09	1.09	1.13	1.09	1.11	1.10
11.5	0.00	0.28	1.21	1.20	1.20	1.21	1.24	1.20	1.22	1.21
11.75	0.00	0.39	1.66	1.64	1.64	1.65	1.70	1.64	1.66	1.66
12	0.00	0.66	2.84	2.81	2.82	2.82	2.91	2.81	2.85	2.84
12.25	0.00	0.71	3.03	3.00	3.00	3.01	3.11	3.00	3.04	3.03
12.5	0.00	0.74	3.15	3.12	3.12	3.13	3.23	3.12	3.16	3.15
12.75	0.00	0.76	3.24	3.21	3.22	3.23	3.33	3.21	3.26	3.25
13	0.00	0.78	3.32	3.29	3.30	3.31	3.41	3.29	3.34	3.33
13.25	0.00	0.79	3.39	3.35	3.36	3.37	3.48	3.35	3.40	3.39

24-hr Pre	cinitatio	n Dietr	ibution	(Type	IIV					
24-111 1 16	cipitatio	וו טופנו	A	C	<u>'')</u>	Е	Н	М	N	Q
13.5	0.00	0.80	3.44	3.41	3.42	3.43	3.53	3.41	3.46	3.45
13.75	0.00	0.82	3.49	3.46	3.46	3.47	3.58	3.46	3.50	3.50
14	0.00	0.83	3.53	3.50	3.51	3.51	3.62	3.50	3.55	3.54
14.25	0.00	0.83	3.57	3.54	3.54	3.55	3.66	3.54	3.59	3.58
14.5	0.00	0.84	3.60	3.57	3.58	3.59	3.70	3.57	3.62	3.61
14.75	0.00	0.85	3.63	3.60	3.61	3.62	3.73	3.60	3.65	3.64
15	0.00	0.86	3.66	3.63	3.64	3.65	3.76	3.63	3.68	3.67
15.25	0.00	0.86	3.69	3.66	3.67	3.68	3.79	3.66	3.71	3.70
15.5	0.00	0.87	3.72	3.68	3.69	3.70	3.82	3.68	3.74	3.73
15.75	0.00	0.88	3.75	3.71	3.72	3.73	3.84	3.71	3.76	3.75
16	0.00	0.88	3.77	3.74	3.74	3.75	3.87	3.74	3.79	3.78
16.25	0.00	0.89	3.80	3.76	3.77	3.78	3.90	3.76	3.81	3.81
16.5	0.00	0.89	3.82	3.79	3.80	3.80	3.92	3.79	3.84	3.83
16.75	0.00	0.90	3.84	3.81	3.82	3.83	3.95	3.81	3.86	3.85
17	0.00	0.90	3.86	3.83	3.84	3.85	3.97	3.83	3.88	3.87
17.25	0.00	0.91	3.89	3.85	3.86	3.87	3.99	3.85	3.90	3.90
17.5	0.00	0.91	3.91	3.87	3.88	3.89	4.01	3.87	3.93	3.92
17.75	0.00	0.92	3.93	3.89	3.90	3.91	4.03	3.89	3.95	3.94
18	0.00	0.92	3.95	3.91	3.92	3.93	4.05	3.91	3.96	3.96
18.25	0.00	0.93	3.96	3.93	3.94	3.94	4.07	3.93	3.98	3.97
18.5	0.00	0.93	3.98	3.94	3.95	3.96	4.09	3.94	4.00	3.99
18.75	0.00	0.93	4.00	3.96	3.97	3.98	4.10	3.96	4.02	4.01
19	0.00	0.94	4.01	3.98	3.99	4.00	4.12	3.98	4.03	4.02
19.25	0.00	0.94	4.03	3.99	4.00	4.01	4.14	3.99	4.05	4.04
19.5	0.00	0.95	4.05	4.01	4.02	4.03	4.16	4.01	4.07	4.06
19.75	0.00	0.95	4.07	4.03	4.04	4.05	4.17	4.03	4.09	4.08
20	0.00	0.95	4.08	4.04	4.05	4.06	4.19	4.04	4.10	4.09
20.25	0.00	0.96	4.09	4.05	4.06	4.07	4.20	4.05	4.11	4.10
20.5	0.00	0.96	4.10	4.07	4.08	4.09	4.21	4.07	4.12	4.11
20.75	0.00	0.96	4.12	4.08	4.09	4.10	4.23	4.08	4.14	4.13
21	0.00	0.97	4.13	4.09	4.10	4.11	4.24	4.09	4.15	4.14
21.25	0.00	0.97	4.14	4.10	4.11	4.12	4.25	4.10	4.16	4.15
21.5	0.00	0.97	4.16	4.12	4.13	4.14	4.27	4.12	4.18	4.17
21.75 22	0.00	0.97	4.17	4.13	4.14	4.15	4.28	4.13	4.19	4.18
22 22.25	0.00	0.98	4.18	4.14	4.15	4.16	4.29	4.14	4.20	4.19
22.25 22.5	0.00	0.98 0.98	4.19 4.21	4.16	4.17	4.17	4.31	4.16	4.21	4.20
22.5 22.75	0.00	0.98	4.21	4.17	4.18	4.19	4.32	4.17	4.23	4.22
22.75 23	0.00	0.99	4.22	4.18 4.19	4.19 4.20	4.20	4.33	4.18	4.24	4.23
23.25	0.00	0.99	4.25			4.21	4.35	4.19	4.25	4.24
23.25 23.5	0.00	1.00	4.25	4.21 4.22	4.22	4.23	4.36	4.21	4.27	4.26
23.75	0.00	1.00	4.26	4.22	4.23	4.24	4.37	4.22	4.28	4.27
23.75 24	1.00	1.00	4.27		4.24	4.25	4.39	4.23	4.29	4.28
4 1	_ 1.00	1.00	4.20	4.24	4.25	4.26	4.39	4.24	4.30	4.29

	Area (ft²)	Area (mi²)	Length (ft)	Length (mi)	Centroid Length (ft)	Centroid Length (mi)	Top Elev	Bottom Elev	Elev Diff	Slope (ft/mi)	Slope (%)	Tc (hr)	Tc (min)	~
SacWashE-01	29599749	1.06	14979	2.84	8119	1.54	2630	2480	150	48.9790	0.93%	1.60	96.14	1.39
SacWashA-02	134011258	4.81	2022	3.94	14445	2.74	2620	2450	170	41.9266	0.79%	_	144.56	1.20
SacWashA-03	11782477	0.42	9082	1.72	0989	1.20	2760	2620	140	57.7389	1.09%	-	70.43	1.1
SacWashA-04	59246948	2.13	19991	3.79	9866	1.89	2875	2660	215	54.9515	1.04%	1.90	113.98	1.42
SacWashA-05	90699043	3.25	23378	4.43	11669	2.21	3020	2755	265	56.3798	1.07%	2.13	127.94	1.44
SacWashA-06	30119664	1.08	13361	2.53	9945	1.88	3000	2810	190	72.1779	1.37%	1.52	91.11	1.18
SacWashB-01	147968687	5.31	21454	4.06	12306	2.33	4400	2990	1410	196.6517	3.72%	1.73	103.80	0.81
SacWashA-07	274352090	9.84	31454	5.96	27828	5.27	3400	2810	069	83.0358	1.57%		177.03	1.39
SacWashA08	144771184	5.19	39654	7.51	17055	3.23	3840	2840		99.4451	1.88%		150.18	2.01
SacWashA-09	285879403	10.25	52974	10.03	28079	5.32	4600	2860		107 4644	2.04%	3.21	192.75	2.27
SacWashA-11	388340570	13.93	40008	7.58	21313	4.04	3950	2960		106.9435	2.03%		173.10	1.35
SacWashA-12	508380338	18.24	62455	11.83	28066	5.32	5060	3080	1980	100.2296	1.90%		215.71	2.11
SacWashA-12	289918143	10.40	72656	13.76	33888	6.42	6400	3120		143,4842	2.72%	3.44	206.64	3.13
SacWashA-12	268461945	9.63	63372	12.00	24796	4.70	6880	3120		146.2960	2.77%		182.57	2.56
SacWashD-01	394520758	14.15	81719	15.48	34089	6.46	7000	2780		104.1779	1.97%		234.32	3.32
SacWashA-10	77312465	2.77	22405	4.24	10408	1.97	3160	2910	250	56.0394	1.06%			1.44
Offsite Diverted-02	31599960	1.13	8455	1.60	4260	0.81	2700	2560		83.4078	1.58%	1.07	64.18	0.54
Offsite Diverted-01	3237668	0.12	3181	09.0	1998	0.38	2950	2620		195.5571	3.70%		_	0.36
HolyMosesA-02	33823072	1.21	18918	3.58	16072	3.04	2920	2640	280	75.2405	1.43%	ᅥ	1	1.85
13MileWashE-03	9951908	0.36	7083	1.34	2548	0.48	2760	2660	9	70.5767	1.34%	0.83		0.68
HolyMosesA-03	108020771	3.87	21617	4.09	10105	1.91	4120	2920	1200	164.7413	3.12%		99.39	0.92
HolyMosesA-05	119031114	4.27	25256	4.78	13053	2.47	3960	3080		125.0076	2.37%		117,55	1.19
HolyMosesA-07	371544656	13.33	45292	8.58	25427	4.82	4900	3400		133.2136	2.52%	_	177.80	1.58
HolyMosesA-08	537503461	19.28	72340	13.70	42862	8.12	8160	3180		202.9523	3.84%	3.62	217.24	2.32
HolyMosesA-06	227180971	8.15	49071	9.29	30363	5.75	0009	3200	2800	241.2147	4.57%	┪	160.31	1.98
HolyMosesA-04	230397565	8.26	49533	9.38	24760	4.69	4500	3040	П	142.3288	2.70%	1	169.93	2.11
												+	-	
13MileWash-01	598820	0.02	1965	0.37	1275	0.24	2490	2475	15	40.069	0.76%	0.43	25.67	0.58
13MileWashC-01	1046016	40.0	2796	0.53	1519	0.29	2510	2490	20	37.722	0.71%	┪	_1	0.70
13MileWashC-04	148873841	5.34	34144	6.47	18660	3.53	5360	2865	2495	229.845	4.35%	5.09	_	1.44
13MileWash-04	119652268	4.29	39794	7.54	15268	2.89	5320	2835	2485	195.574	3.70%	一	125.30	1.84
13MileWashCmisc-01	385428430	13.83	40086	7.59	20042	3.80	4200	2505	1695	94.638	1.79%		174.64	1.37
13MileWashCmisc-02	325043963	11.66	40434	7.66	17458	3.31	4800	2580	2220	127.573	2.42%		156.58	1.35
13MileWashB-05	178938741	6.42	40522	7.67	17512	3.32	5400	2815	2585	156.353	2.96%		_	1.70
13MileWash-02	21820460	0.78	18947	3.59	9611	1.82	2700	2490	210	56.317	1.07%	1.67	100.31	2.09
13MileWash-03	44191903	1.59	25954	4.92	12566	2.38	2960	2580	380	72.774	1.38%	7	-	2.16
13MileWashC-03	32152694	1.15	20385	3.86	9411	1.78	2875	2505	370	74.226	1.41%		99.97	1.77
13MileWashC-02	50050905	1.80	19824	3.75	9637	1.83	2765	2640	125	64.091	1.21%	1.79	107.49	1.46

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	Area (ft²)	Area (mi²)	Length (ft)	Length (mi)	Centroid Length (ft)	Centroid Length (mi)	Top Elev	Bottom Elev	Elev Diff	Slope (ft/mi)	Slope	Tc (hr)	Tc (min)	œ
13MileWashB-1A-02	4573521	0.16	6292	1.45	3435	0.65	2890	2760	130	87.971	1.67%	0.81	48.41	1.10
13MileWashB-1C-01	3198738	0.11	8669	1.33	2491	0.47	2870	2755	115	84.6411	1.60%	0.71	42.45	1.08
13MileWashB-1C-02	1654372	90.0	2282	0.43	1073	0.20	2815	2785	30	69.2491	1.31%	0.42	25.32	0.36
13MileWashB-1A-01	16692070	09.0	11900	2.25	6002	1.14	2830	2660	170	73.7198	1.40%	1.22	73.24	1.18
13MileWashA-02	134135050	4.81	26068	7.40	16407	3.11	4080	2810	1270	112.7837	2.14%	2.39	143.42	1.97
13MileWashA-01	33531281	1.20	24909	4.72	12676	2.40	3025	2675	350	69.3455	1.31%	1.92	115.26	2.38
13MileWashB-1B-02	1882303	0.07	3097	0.59	1565	0:30	2830	2780	50	84.2754	1.60%	0.49	29.25	0.51
13MileWashB-02	1590416	0.06	2869	0.54	1390	0.26	2695	2660	35	64.4069	1.22%	0.48	28.91	0.52
13MileWashB-01	11674518	0.42	13313	2.52	6631	1.26	2730	2580	150	56.7770	1.08%	1.31	78.50	1.72
13MileWashB-1B-01	1222874	0.04	2179	0.41	1130	0.21	2790	2750	40	96.6265	1.83%	0.38	23.02	0.37
13MileWashB-1A-03	3664221	0.13	0999	1.26	3268	0.62	2980	2850	130	102.0826	1.93%	0.73	43.81	1.00
cerbat-03	281098232	10.08	65753	12.45	22733	4.31	5040	2760	2280	116.1901	2.20%	3.16	189.68	2.67
Cerbat-02	102289952	3.67	33758	6:39	17792	3.37	2940	2550	390	58.9250	1.12%	2.61	156.35	2.25
CerbatTribA-02	23604563	0.85	18140	3.44	9021	1.71	2865	2630	235	67.4343	1.28%	1.58	94.96	1.82
Cerbat-01	25841320	0.93	12957	2.45	6601	1.25	2600	2475	125	50.0168	0.95%	1.44	86.49	1.19
CerbatTrib1A-01	14734079	0.53	6997	1.33	5015	0.95	2630	2555	7.5	55.1649	1.04%	1.07	64.17	0.72
SacTrib6misc-01	17707406	0.64	15920	3.02	8455	1.60	0008	2800	200	54.4336	1.03%	1.53	17.16	1.86
SacTrib6-01	751193	0.03	2264	0.43	1164	0.22	2640	2620	20	46.6509	0.88%	0.43	25.79	0.58
Sactrib6D-01	8120159	0.29	10771	2.04	5454	1.03	2910	2790	120	55.9701	1.06%	1.14	68.57	1.53
SacTrib6-05	544582702	19.53	72872	13.80	36209	6.86	2300	2795	2505	103.4852	1.96%	36'8	239.05	2.57
SacTrib6D-02	12130144	0.44	12486	2.36	6319	1.20	2962	2815	150	63.0325	1.19%	1.25	75.04	1.52
SacTrib6C-03	5781644	0.21	5131	0.97	2618	09.0	2850	2790	09	59.2416	1.12%	92'0	45.32	0.65
SacTrib6C-04	7020344	0.25	8212	1.56	4185	62'0	2925	2830	92	60.4490	1.14%	26'0	58.20	1.12
SacTrib6-04	11708838	0.42	9616	1.82	4541	0.86	2840	2725	115	62.1609	1.18%	1.08	64.67	1.07
SacTrib6C-01	8119810	0.29	8509	1.61	4335	0.82	2765	2670	98	54.5432	1.03%	1.02	61.36	1.12
SacTrib6C-02	5092942	0.18	4863	0.92	2454	0.46	2795	2735	90	64.9702	1.23%	0.71	42.64	0.62
SacTrib6-03	6510760	0.23	8197	1.55	4088	22.0	2765	2670	92	6980.09	1.14%	0.96	57.47	1.15
SacTrib6-02	1439773	0.05	2160	0.41	1497	0.28	2670	2640	30	70,9900	1.34%	0.44	26.64	0.40
13MileWashB-04	1251457	0.04	4458	0.84	409	0.08	2815	2755	09	67.6220	1.28%	0.38	22.99	0.65
13MileWashB-03	100110037	35.0	0733	1 26	FCC4	000	0020	0000						,

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Technical Drainage Study Golden Valley Ranch

Muskingum Calculations (wide rectangular channel assumed)

Time interval (min	5						Status 1/(2*(1-	1/(2*(1-X))<=K/(NSTPS*TIME		INTERVAL) $\leq 1/(2*X)$	*X)
Assumed Depth (ft)	न्नं		~									
Identification	Lengt h	Slope%	ជ	Velocity	Adj. Veloci ty	Salsi	K	X	1/(2*(1- X))	K/(NSTPS*TIME)	1/(2*X)	STATUS
R-J-SacWash-02	3182	1.0371	0.035	4.3	2.7	25 m	0.326206	0. TS	0.58823529	1.957238731	3.33333	OK
R-J-SacWash-03	10917	0.9068	0.035	4.1	2.5	- 2	1:196841	0.15	0.58823529	2.872419509	3.33333	OK
R-J-SacWash-04	6541	0.902	0.035	4.0	· •	38	0.719018	0.15	352	2.876070099	3.33333	OK
R-J-SacWash-05	3159	1.4562	0.035	5.1	3.2		0.273303	0.15	0.58823529	3.279638884	3.3333	OK
R-J-SacWash-06	2554	0.5873	0.035	3.3	2.0	2	0.347924	0:15	0.58823529	2.087546788	3.33333	OK
R-J-SacWash-07	4938	0.6075	0.035	3.3	2.1	8	0.661402	0.15	0.58823529	0.99210244	3.33333	OK
R-J-SacWash-08	4097	1.3424	0.035	4.9	3.1	2	0.369162	0.15	0.58823529	2.214971331	3.3333	OK
R-SacWashA-11	11765	1.071	0.035	4.4	2.8	9	_	0.15	0.58823529	2.373733059	3.33333	OK
R-J-SacWash-01	17092	0.9537	0.035	4.2	2.6	1	1,827237	0.15	0.58823529	3.132405572	3.3333	OK
R-J-SacWash-09	19820	0.9132	0.035	4.1	2.5	8	2,165287	0.15	0.58823529	3.247930329	3,33333	OK
R-J-SacWashB-11	13178	1.3356	0.035	4.9	3.1	2	1.190466	0.15	0.58823529	2.8571196	3.3333	OK
R-J-SacWashD-01	3231	0.9595	0.035	4.2	2.6	2	0.344369	0.15	0.58823529	2.066213041	3.3333	OK
						Care State Committee						
J11-12	18740	1.4781	0.035	5.2	3.2	9:5:	1.609214	0.15	0.58823529	3.218427636	3.33333	OK
R-J-HolyMoses-02	7071	1.7395	0.035	5.6	3.5	S	0.559716	0.15	0.58823529	2.238865218	3.3333	OK
J13-14	3219	1.1494	0.035	4.6	5.9	2	0.313458	[0.15]	0.58823529	1.880750176	3.33333	OK
J14-15	4004	2.1229	0.035	6.2	3.9	3.6	0.286900	0.15	0.58823529	1.147600925	3.3333	OK
•												
R-SacWashA-01	13503	0.0518	0.035	1.5	1.0	-2.15	3.900398	0:15	0.58823529	3.120318763	3.33333	OK
R-HolyMosesA-01	18392	1.1962	0.035	4.7	2.9		1.755623	0.15	0.58823529	3.009640073	3.33333	OK
R-13MileWashD-02	19358	1.0332	0.035	4.3	2.7	8	T:988268	0.15	0.58823529	2.982402449	3.33333	OK
R-Confl-13Mil-C	2101	0.9519	0.035	4.2	5.6	T	0.224814	0:15	0.58823529	2.697767911	3.3333	OK
R-J-L	9069	0.6226	0.035	3.4	2.1	9	0:913703	0.15	0.58823529	1.827405328	3.33333	OK
R-J-M	8498	0.7884	0.035	3.8	7.4	9	0.999164	91.0	0.58823529	1.998328776	3.33333	OK
R-HolyMosesA-02	18229	1.2	0.035	4.7	2.9	1.1	1.737312	0.15	0.58823529	2.978249453	3.3333	ОК
R-SacwashE-01	24419	1.15	0.035	4.6	2.9	6.4	2.377306	0.15	0.58823529	3.169740671	3.33333	OK

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Golden Valley Ranch Technical Drainage Study

Identification	Lengt h	Slope%	ц	Adj. Velocity Veloci ty	Adj. Veloci ty	NSTES	K	1/(2*(1- X))	K/(NSTPS*TIME)	1/(2*X)	STATUS
R-HM_Div03	8695	1.4951	0.035	5.2	3.3	7	0.742390 0.1	0:742390 0:15 0.58823529	2.22716922	3.33333	OK
						Alexander Madein					
R-HM_Div02	3626	3626 1.3789 0.035	0.035	5.0	3.1	2	0.322371 0.3	0.322371 0.15 0.58823529	1.93422595	3.33333	OK
R-Div02	24121	24121 0.9328 0.035	0.035	4.1	2.6	1.0	2.607360 0.15	5 0.58823529	3.128831734	3.33333	OK
R-HM_Div01	6361	1.4149 0.035	0.035	5.1	3.2	3	0.558298 0.3	0.558298 0.15 0.58823529	2.233192125	3.33333	OK
R-Div01	4860	4860 1.3374 0.035	0.035	4.9	3.1	-z	0.438730 0.1	0.438730 0.15 0.58823529	2.632377886	3.33333	OK
								34.5			
R-J-S26	2564	0.78 0.035	0.035	3.8	2.3	Z	0:303083	0,303083 0.15 0.58823529	1.818496802	3.33333	OK
R-Ex Shed C	15439	15439 1.1011 0.035	0.035	4.5	2.8	9	1.536044 0.1	1536044 0.15 0.58823529	3.072087234	3.33333	OK N
R-Ex Shed D	9403	9403 2.0738 0.035	0.035	6.1	3.8	2	0.681682 0.1	3 681682 0.15 0.58823529	2.726726618	3.33333	OK

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GOLDEN VALLEY RANCH

APPENDIX C

HYDRAULICS

HEC-RAS Diversion Channel Analysis for the Holy Moses Wash HEC-RAS Analysis for Holy Moses Diversion Wash 1 – Base Flood Elevation (BFE) Normal Depth Street Capacity Analysis Normal Depth Channel Analysis Culvert Analysis

Golden Valley Ranch Technical Drainage Study

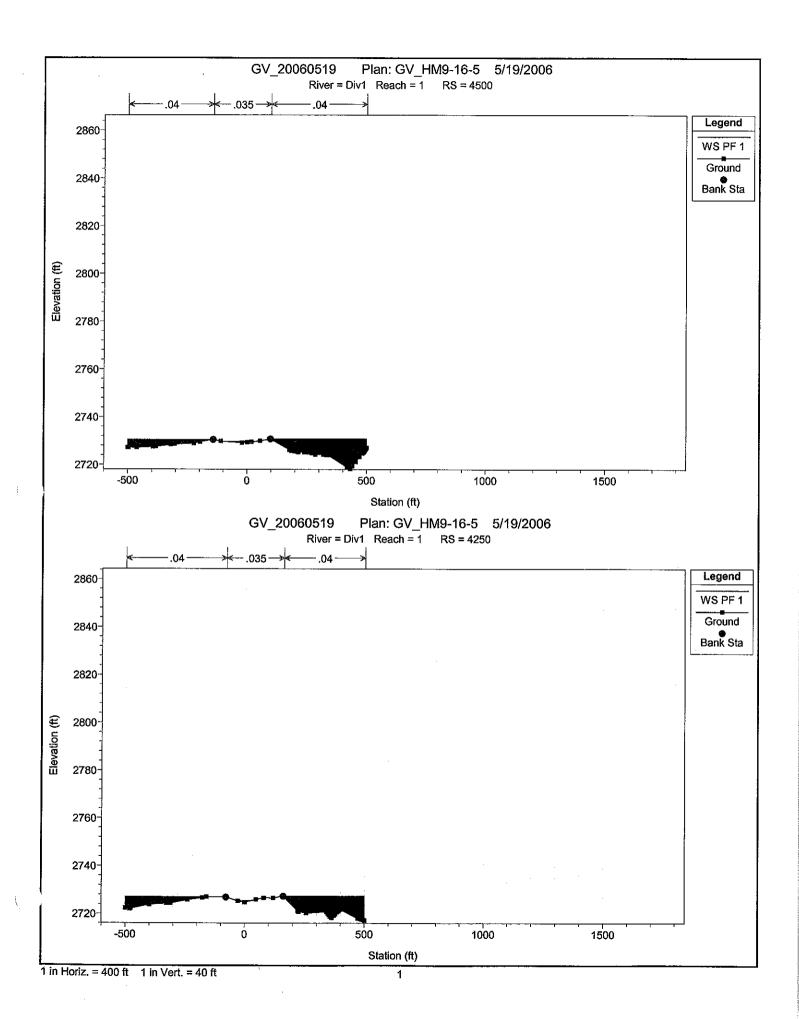
HEC-RAS Plan: 9-16	6-05 Profile: PF 1	T						· · · · · ·	
River	Reach River Sta	Drofile	Q Total	Min Ch El	W.S. Elev	Vol Chal	Flow Area	Top Width	Froude # Chl
Kivei	Readil River Sta	Frome							Floude # Cili
Holy Mosos Wash	1 27750	DE 4	(cfs) 9904	(ft) 2914.2	(ft) 2920.35	(ft/s) 11.8	(sq ft) 1309.57	(ft) 562.21	. 0.97
Holy Moses Wash Holy Moses Wash	1 27500		9904	2914.2	2916.8	6.49	1861.05	865.8	0.69
Holy Moses Wash	1 27250		9904	2907.8		9.92	998.33	325.81	0.09
Holy Moses Wash	1 27000		9904	2903.6		11.39	869.74	301.7	1.18
Holy Moses Wash	1 26750		9904			12.59	801.26	311.19	1.31
Holy Moses Wash	1 26500		9904				1649.02	663.25	0.66
Holy Moses Wash	1 26250		9904				4005.92	925.09	0.23
Holy Moses Wash	2 26000		5229				488.47	116.51	0.85
Holy Moses Wash	2 25750		5229				235.04	158.23	3.22
Holy Moses Wash	2 25500		5229			8.4	622.48	285.15	1
Holy Moses Wash	2 25250		5229				521.71	291.52	1.32
Holy Moses Wash	2 25000		5229			3.17	629.38	291.32	0.73
Holy Moses Wash	2 24750		5229			2.41	2138.84	440.19	0.2
Holy Moses Wash	2 24500		5229				468.06	122.08	0
Holy Moses Wash	2 24250		5229				404.21	94.33	0
Holy Moses Wash	2 24000		5229		2862.23		382.83	89.93	0
Holy Moses Wash	2 23750		5229				402.33	77.51	0
Holy Moses Wash	2 23500		5229		2855.01	13.29	391.02	92.17	1.19
Holy Moses Wash) PF 1	5229				662.06	359.91	0.64
Holy Moses Wash	2 23000		5229			19.05	274.46	148.42	2.47
Holy Moses Wash	2 22750) PF 1	5229				529.82	175.32	1
Holy Moses Wash	2 22500) PF 1	5229			3.03	2071.16	610.84	0.27
Holy Moses Wash	2 22250) PF 1	5229	2831.4	2833.82	5.45	626.91	300.08	0.97
Holy Moses Wash	2 22000) PF 1	5229	2825.4	2831.1	6.68	815.07	314.01	0.73
Holy Moses Wash	2 21750) PF 1	5229	2821.5	2827.61	10.83	482.99	134.58	1.01
Holy Moses Wash	2 21500) PF 1	5229	2814.2	2823.21	3.46	1510.93	333.35	0.29
Holy Moses Wash	2 21250) PF 1	5229	2810.85	2821.68	8.23	635.64	313.4	1.02
Holy Moses Wash	2 21000) PF 1	5229	2807.8	2813.99	14.12	370.29	146.09	1.56
Holy Moses Wash	2 20750) PF 1	5229	2795.7	2810.43	2.41	2172.65	212.07	0.13
Holy Moses Wash	2 20500) PF 1	5229	2798.7	2807.88	12.17	429.78	94.28	1
Holy Moses Wash	2 20250) PF 1	5229	2794.7			375.74	81.78	1.14
Holy Moses Wash) PF 1	5229	2792.2	2803.47	8.56	610.78	148.63	0.74
Holy Moses Wash	2 19750) PF 1	5229	2796.9	2801.21	8.66	604.1	260.54	1
Holy Moses Wash	2 19500) PF 1	5229		2798.61	6.3	830.39	389.56	0.76
Holy Moses Wash) PF 1	5229				599.8		1.01
Holy Moses Wash) PF 1	5229				541.76		1.08
Holy Moses Wash) PF 1	5229				550.01	278.7	1.19
Holy Moses Wash) PF 1	5229		2779.5	12.88	405.9		1.52
Holy Moses Wash	2 18250) PF 1	5229				926.2		0.72
Holy Moses Wash) PF 1	5229				665.47		0.97
Holy Moses Wash) PF 1	5229				1749.47		0.37
Holy Moses Wash) PF 1	4141	2765.35			563.02		1
Holy Moses Wash) PF 1	4141	2755.4			251.25		1.83
Holy Moses Wash) PF 1	4141	2751.9			696.16		
Holy Moses Wash) PF 1	4141	2747.5			852.13		0.69
Holy Moses Wash) PF 1	4141	2745.73			574.87		1.01
Holy Moses Wash) PF 1	4141	2742.5			571.8		1.07
Holy Moses Wash) PF 1	4141	2735.46			644.44		0.85
Holy Moses Wash) PF 1	4141	2734			568.15		
Holy Moses Wash) PF 1	4141	2729.43			406.27		1.29
Holy Moses Wash) PF 1	4141	2727.5			753.78		0.61
Holy Moses Wash) PF 1	4141	2723.31			663.27		0.73
Holy Moses Wash	and the second s) PF 1	4141	2720.3			525.46		1.03
Holy Moses Wash) PF 1	4141	2716.1			638.17		0.7
Holy Moses Wash) PF 1	4030				463.45		
Holy Moses Wash	4 13750) PF 1	4030	2710.9	2715.63	9.09	443.55	182.2	1.03

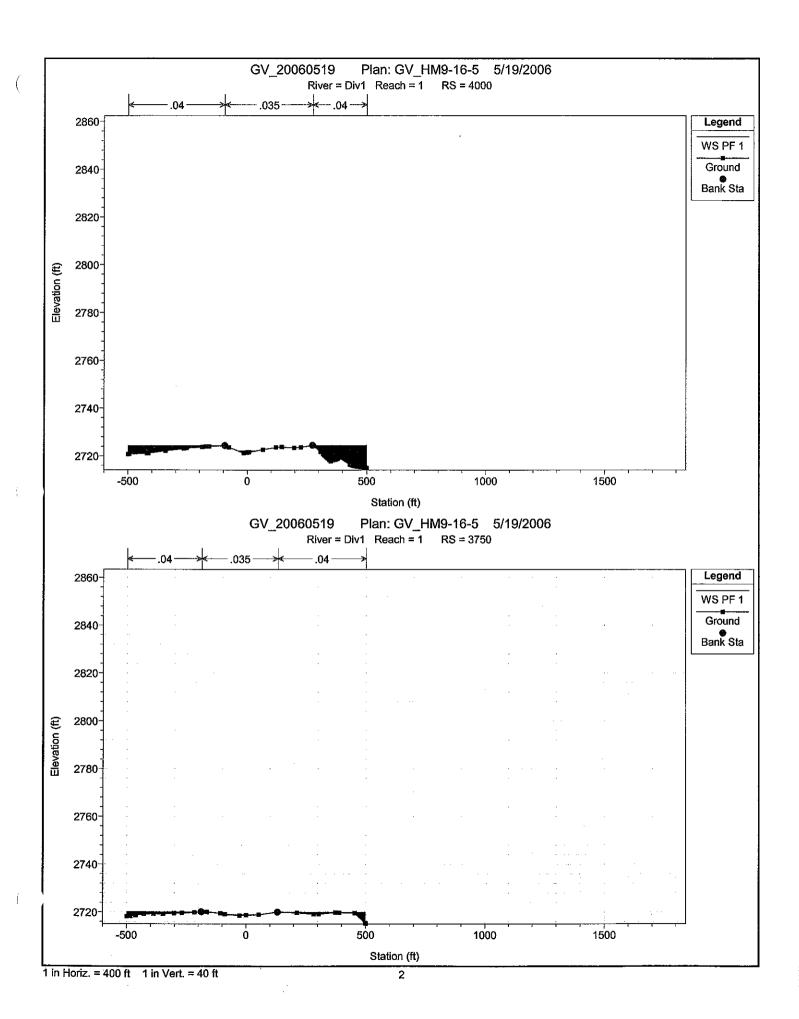
Golden Valley Ranch Technical Drainage Study

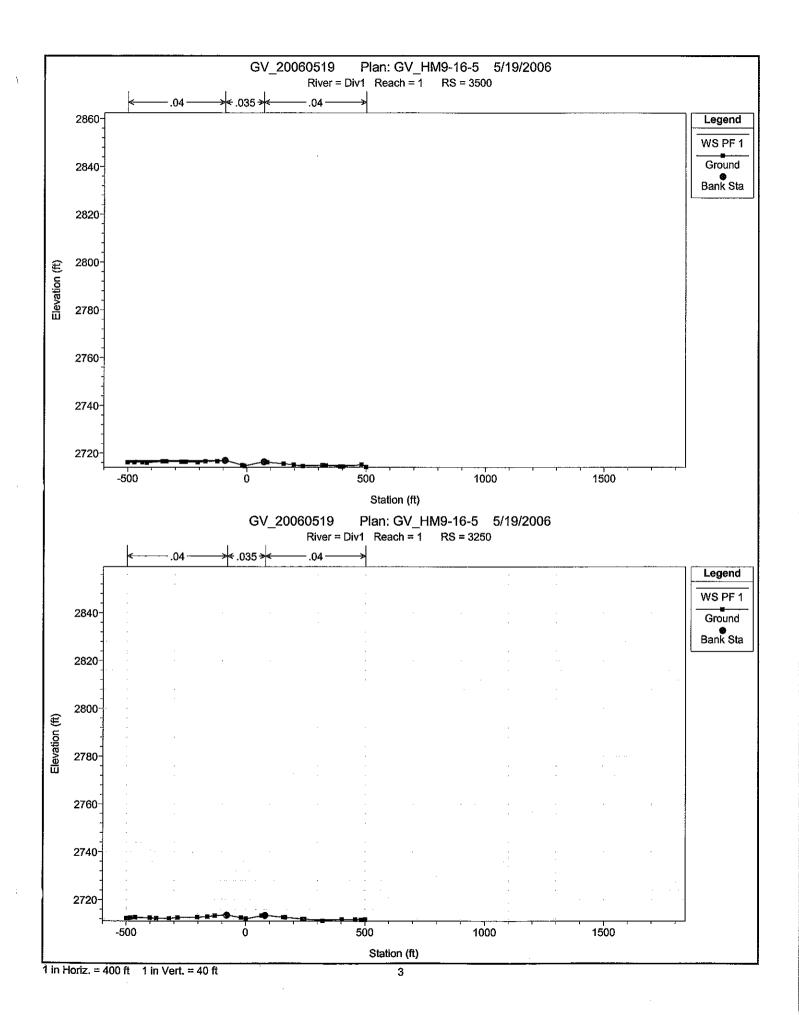
River	Reach	Pivor Sto Profile	I O Totall	Min Ch Ell	M.C. Fland	V-LOE-U	<u> Г</u>	Ta a Marianta	F4- # 051
Holy Moses Wash	4	13500 PF 1	4030	2707.5	2712.56	8.43	478.2	203.41	0.97
Holy Moses Wash	4	13250 PF 1	4030	2703.5	2709.41	8.38	481.17	204.76	0.96
Holy Moses Wash	4	13000 PF 1	4030	2700.2	2706.59	7.63	527.87	235.9	0.9
Holy Moses Wash	4	12750 PF 1	4030	2699.6	2703.28	8.72	461.94	191.09	0.99
Holy Moses Wash	4	12500 PF 1	4030	2696	2699.92	8.59	469.15	209.75	1.01
Holy Moses Wash	4	12250 PF 1	4030	2691.9	2696.12	7.53	534.85	189.03	0.79
Holy Moses Wash	4	12000 PF 1	4030	2689.1	2693.15	9.24	436.25	164.8	1
Holy Moses Wash	4	11750 PF 1	4030	2686	2689.15	9.77	437 <i>.</i> 51	216.9	1.19
Holy Moses Wash	4	11500 PF 1	4030	2682.8	2685.85	8.09	525.29	248.46	0.99
Holy Moses Wash	4	11250 PF 1	4030	2678.5	2683.52	7.08	670.06	341.76	0.77
Holy Moses Wash	4	11000 PF 1	4030	2674.6	2680.09	10.12	398.41	124.61	1
Holy Moses Wash	4	10750 PF 1	4030	2672.5	2677.09	9.29	433.59	164.22	1.01
Holy Moses Wash	4	10500 PF 1	4030	2669.4	2673.51	9.39	429.37	179.86	1.07
Holy Moses Wash	4	10250 PF 1	4030	2666.2	2669.42	8.91	452.09	233.68	1.13
Div3	1	3750 PF 1	4375	2884.1	2902	0.49	11590.54	1356.17	0.02
Div3	1	3500 PF 1	4375	2898.5	2901.81	4.2	1453.74	1102.36	0.51
Div3	1	3250 PF 1	4375	2893.5	2899.13	8.59	509.31	223.6	1
Div3	1	3000 PF 1	4375	2890	2894.78	5.72	765.11	226.7	0.55
Div3	1	2750 PF 1	4375	2888.3	2892.34	9.19	475.9	181.7	1
Div3	1	2500 PF 1	4375	2884.9	2887.98	9.5	460.65	259.08	1.26
Div3	1	2250 PF 1	4375	2879.6	2884.12	7.45	587.24	195.99	0.76
Div3	1	2000 PF 1	4375	2876.3	2881.46	8.34	524.48	243.39	1
Div3	1	1750 PF 1	4375	2873	2877	. 10.68	479.63	249.87	1.19
Div3	1	1500 PF 1	4375	2867.7	2874.51	9.17	815.58	435.48	0.75
Div3	1	1250 PF 1	4375	2866.5	2872.72	6.45	692.33	383.18	0.79
Div3	1	1000 PF 1	4375	2864.4	2869.51	8.16	535.88	259.24	1
Div3	1	750 PF 1	4375	2860.5	2865.57	10.16	506.96	273.15	1.08
Div3	1	500 PF 1	4375	2855.4	2860.8	11.04	402.68	167.02	1.18
Div3	1	250 PF 1	4375	2851.5	2855.7	11.38	390.39	188.61	1.29
Div2	1	18500 PF 1	1088	2765.24	2767.46	4.78	227.7	152.41	0.69
Div2	1	18250 PF 1	1088	2762	2765.04	6.23	174.64	97.81	0.82
Div2	1	18000 PF 1	1088	2759.14	2761.75	7	155.38	104.3	1.01
Div2	1	17750 PF 1	1088	2753.84	2756.89	8.67	125.56	71.02	1.15
Div2	1	17500 PF 1	1088	2748.74	2752.11	8.36	130.12	76.04	1.13
Div2	1	17250 PF 1	1088	2744.77	2750.37	4.91	221.7	89.32	0.55
Div2	1	17000 PF 1	1088	2743.48	2747.88	8.34	130.5	60.85	1
Div2	1	16750 PF 1	1088	2741.11	2744.35	7.27	149.67	93.15	1.01
Div2	1	16500 PF 1	1088	2737.14	2740.39	7.47	145.6	87.02	1.02
Div2	1	16250 PF 1	1088	2733.96	2732.17		139.57	266.26	0
Div2	1	16000 PF 1	1088	2728.94	2726.01		220.19	300.93	0
Div2	1	15750 PF 1	1088	2726.81	2724.08		379.5	195.65	0
Div2	1	15500 PF 1	1088	2723.77	2722.18		184.49	175.53	0
Div1	1	4500 PF 1	111	2729.2	2729.83	2.38	46.69	142.85	0.73
Div1	1	4250 PF 1	111	2724.9	2725.7	3.39	32.78	74.11	0.9
Div1	1	4000 PF 1	111	2721.1	2722.1	2.85	38.91	78.84	0.72
Div1	1	3750 PF 1	111	2718.5	2719.02	2	46.46	144.89	0.69
Div1	1	3500 PF 1	111	2714.7	2714.94	0.91	75.89	266.95	0.46
Div1	1	3250 PF 1	111	2712	2711.79		48.9	223.12	0
Div1	1	3000 PF 1	111	2709.3	2707.98		66.5	233.29	0
Div1	1	2750 PF 1	111	2706.6	2703.4		33.52	101.23	0
Div1	1	2500 PF 1	111	2703.1	2699.11		69.38	117.19	0
Div1	1	2250 PF 1	111	2697.8	2697.03		39.6	129.21	0
Dív1	1	2000 PF 1	111	2692	2689.65		29.71	69.72	0
Div1	1	1750 PF 1	111	2689.5	2687.77		54.81	62.29	0
Div1	1	1500 PF 1	111	2685.5	2685.7	1.33	27.19	54.5	0.78
Div1	1	1250 PF 1	111	2681.9	2680.26		44.06	51.94	0
Div1	1	1000 PF 1	111	2677.6	2678.59	2.2	50.13	99.95	0.58
Div1	1	750 PF 1	111	2677	2674.91		25.65	44.94	0

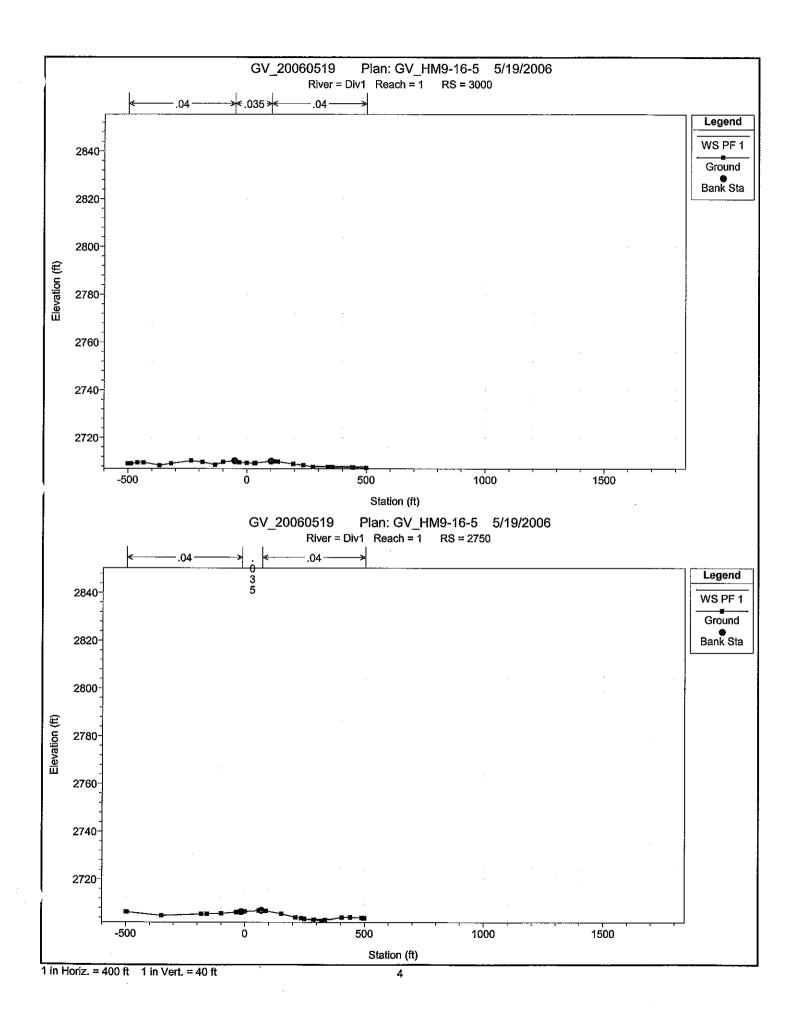
Golden Valley Ranch Technical Drainage Study

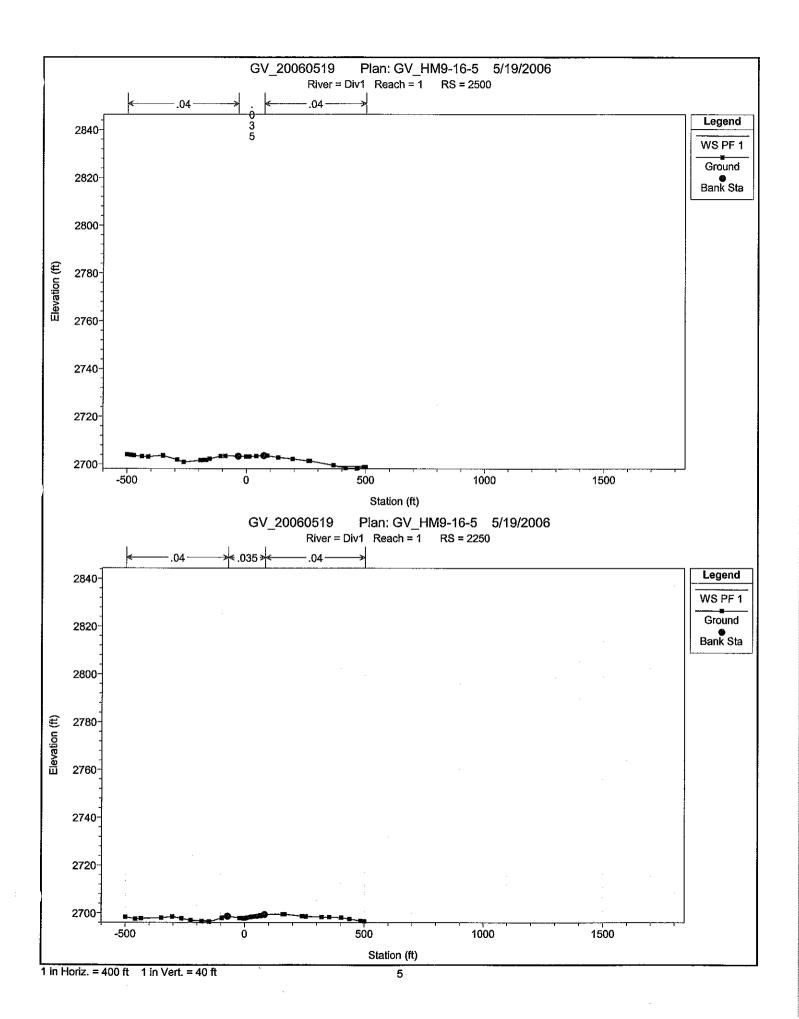
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Vel Chnl	Flow Area	Top Width	Froude # Chl
Div1	1	500	PF 1	111	2671.8	2671.07		53.58	40.33	0
Div1	1	250	PF 1	111	2669.4	2669.59	1.31	33.16	93.51	0.8

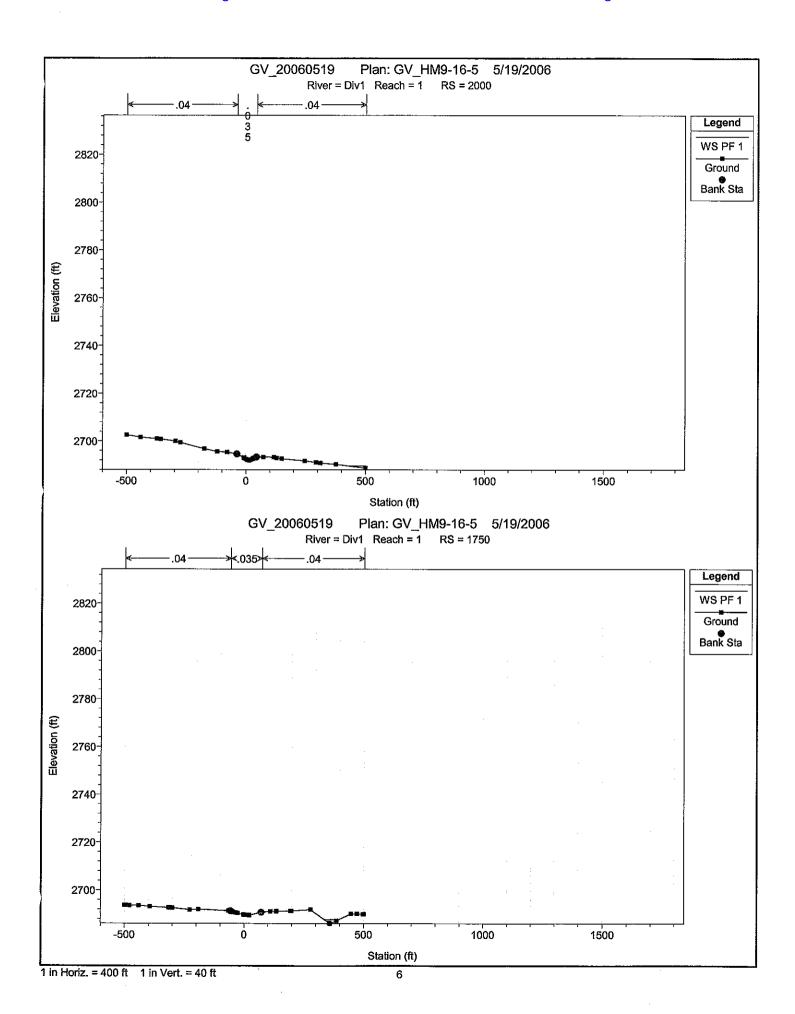


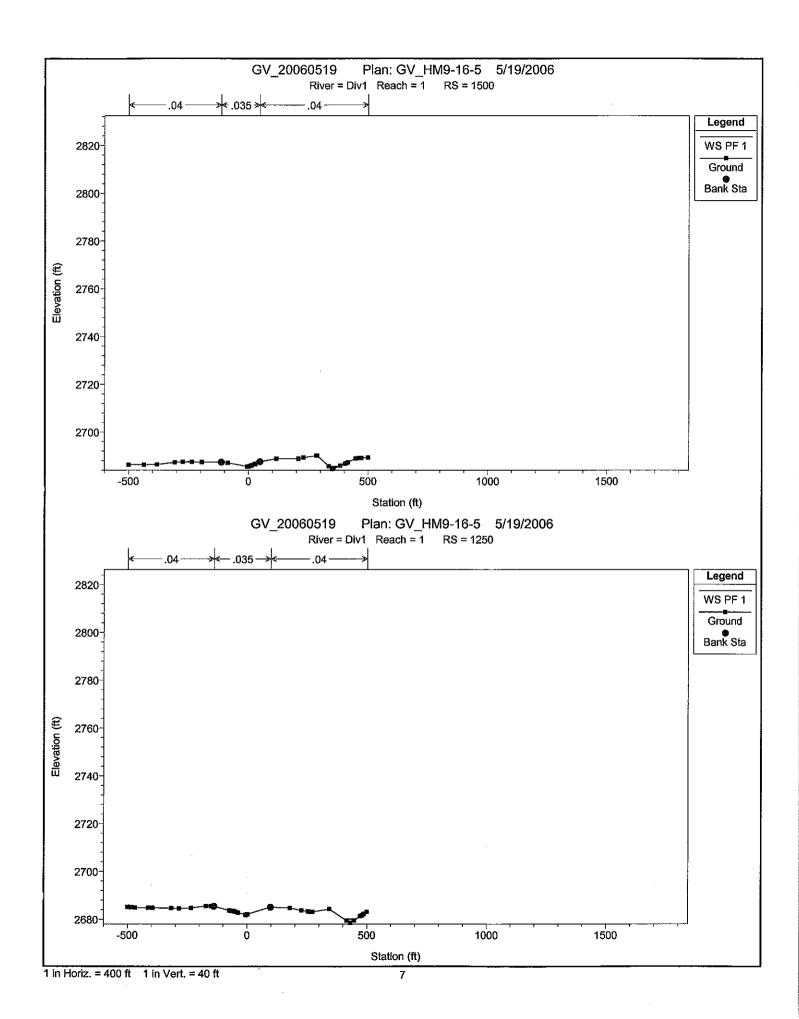


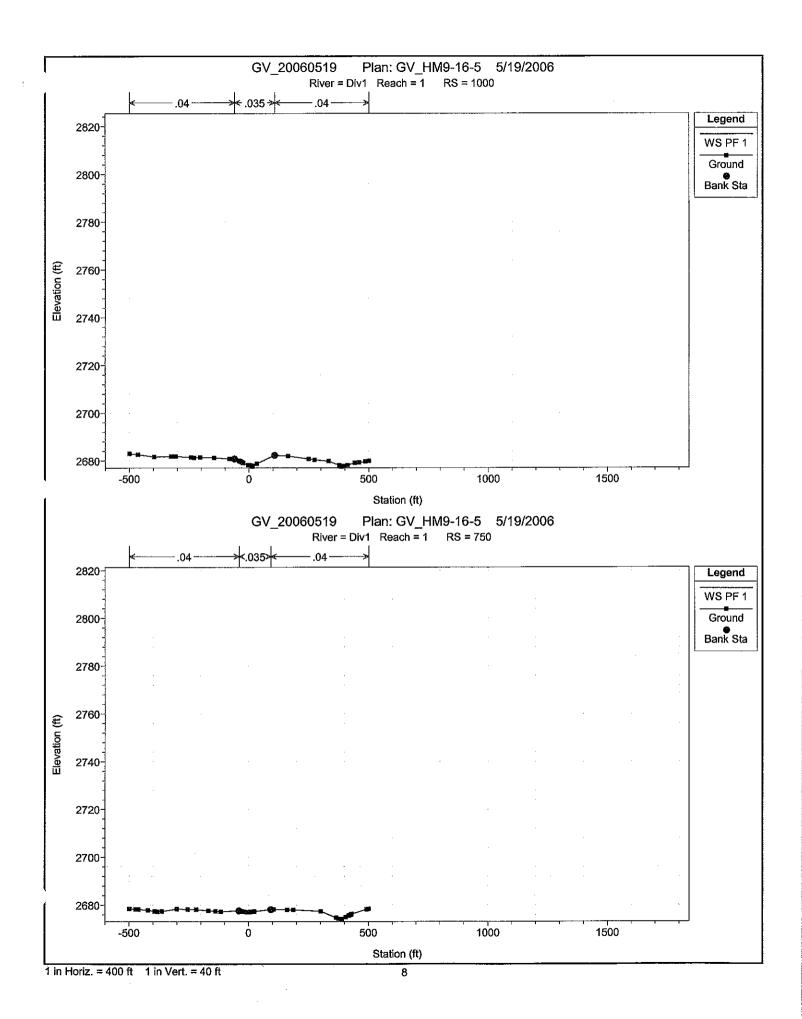


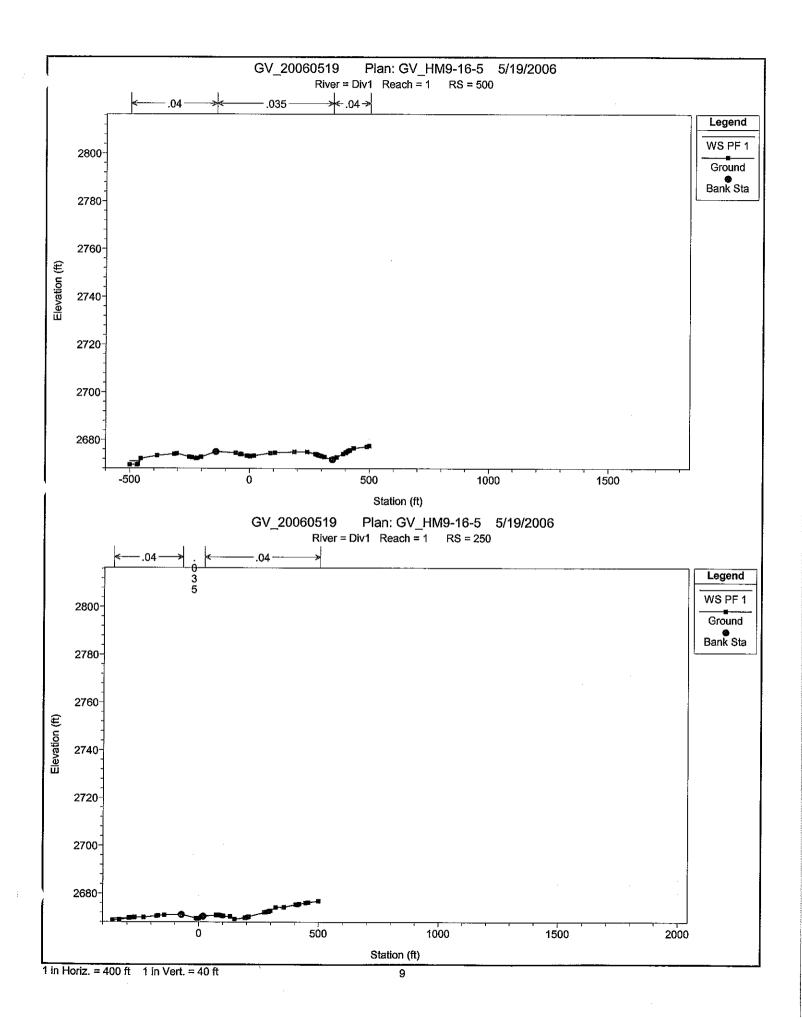


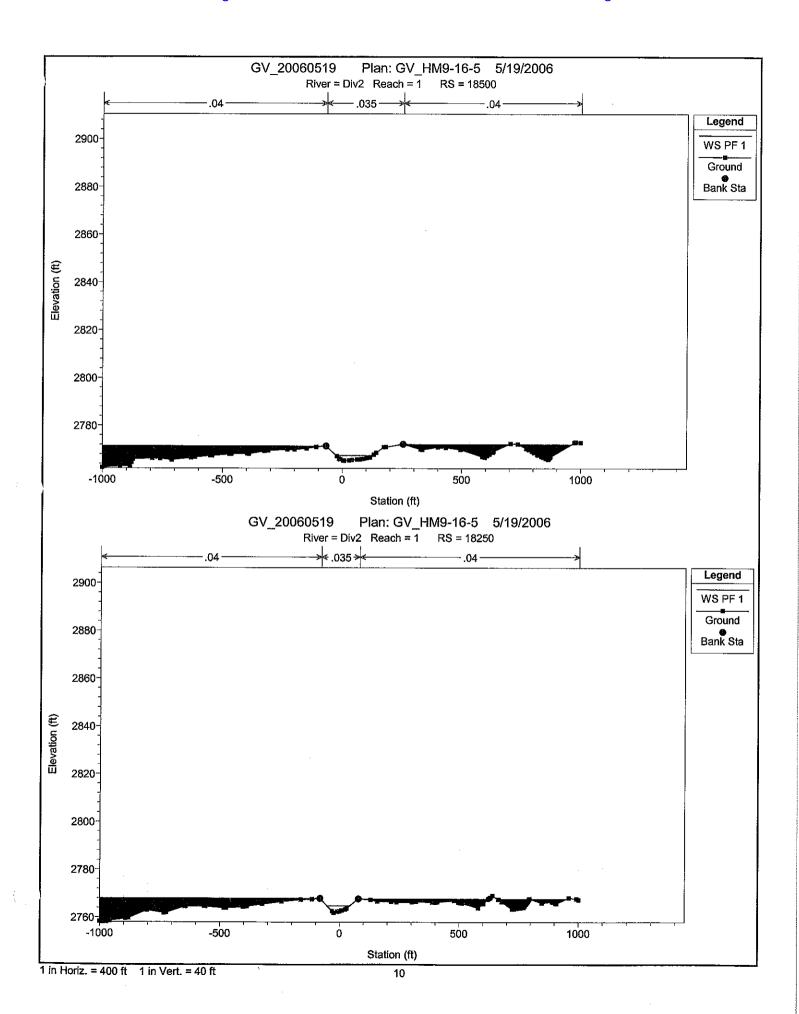


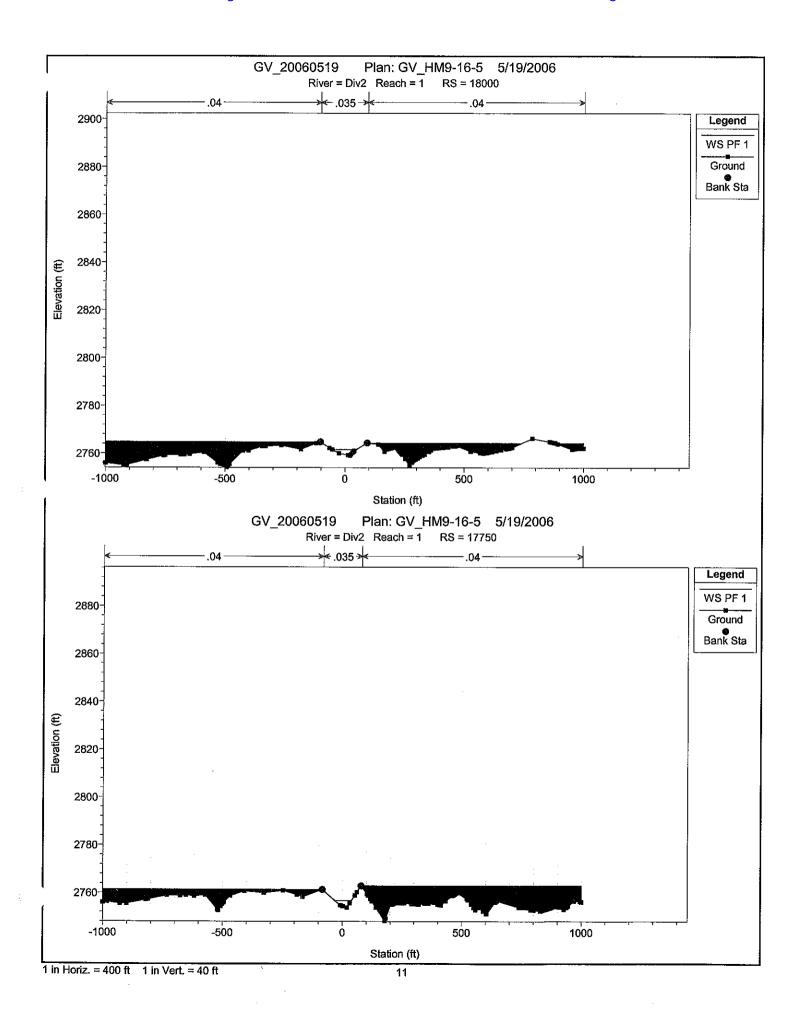


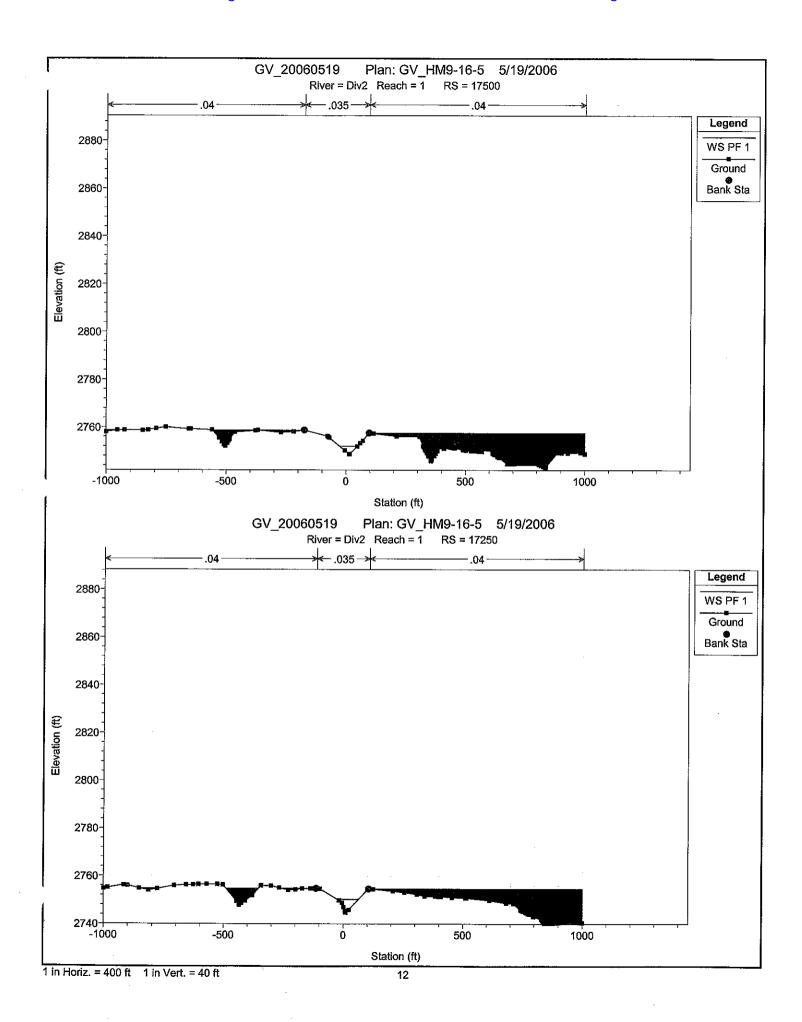


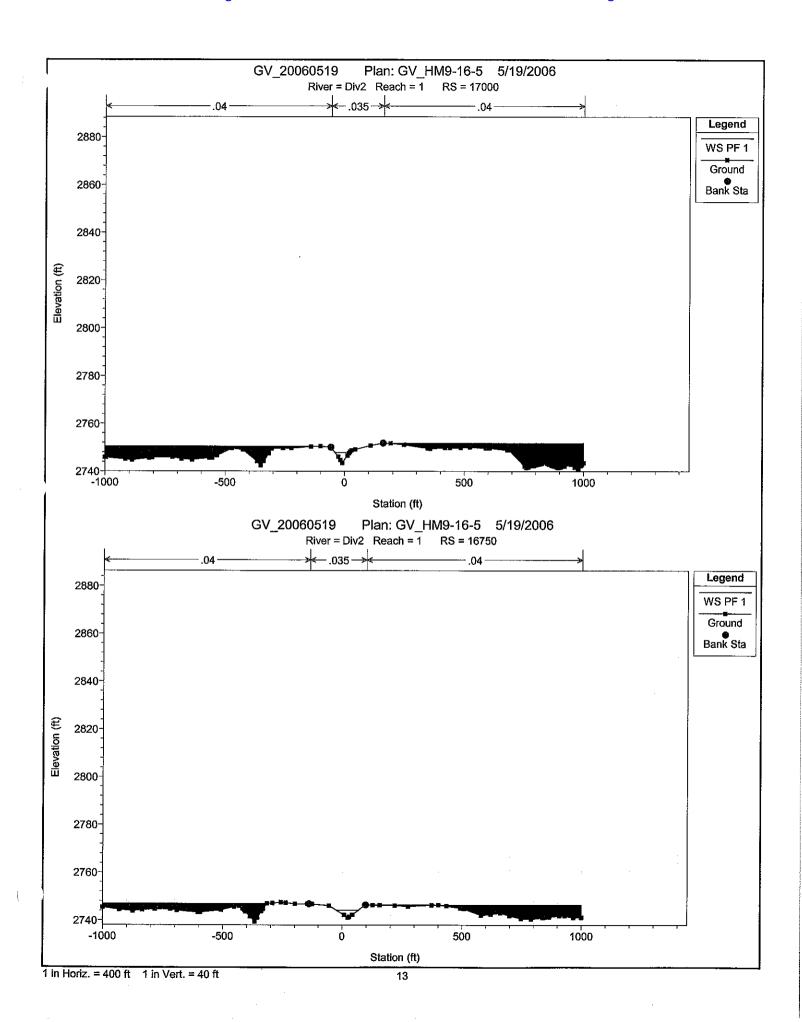


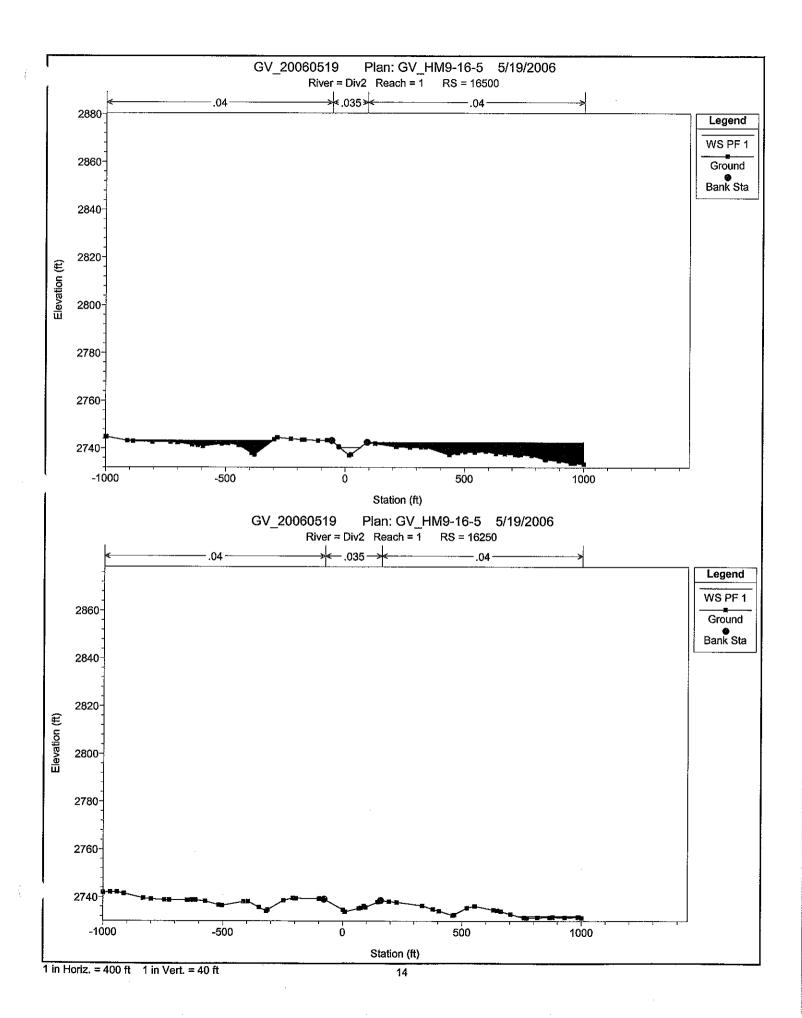


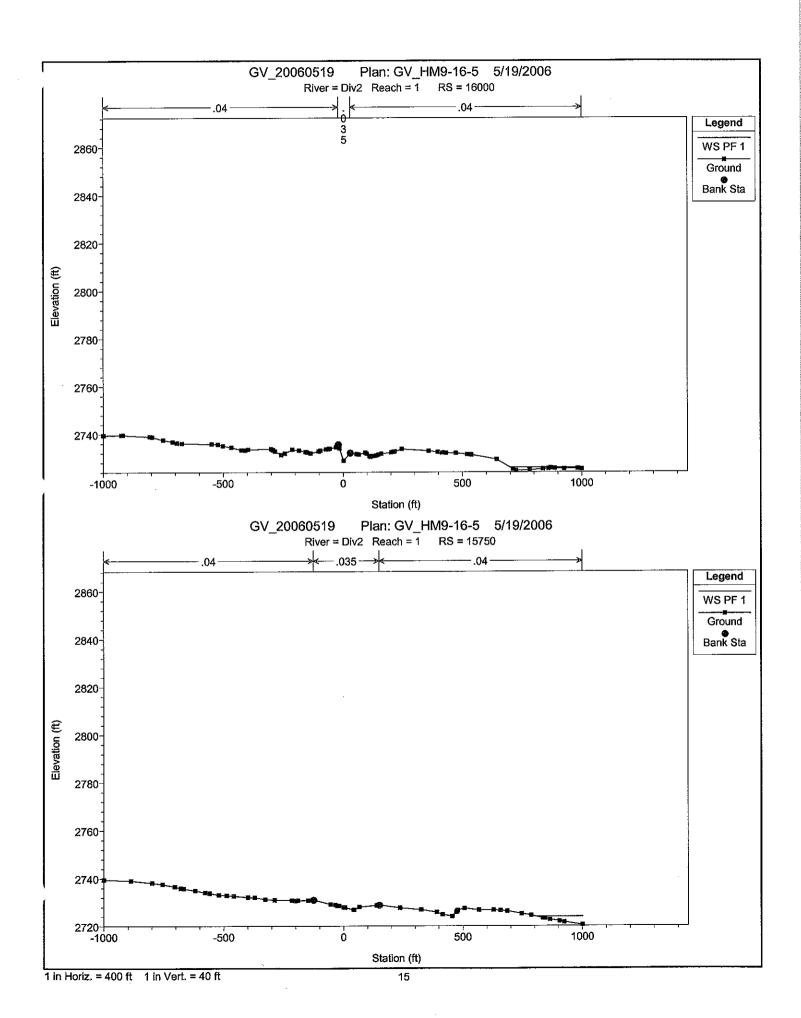


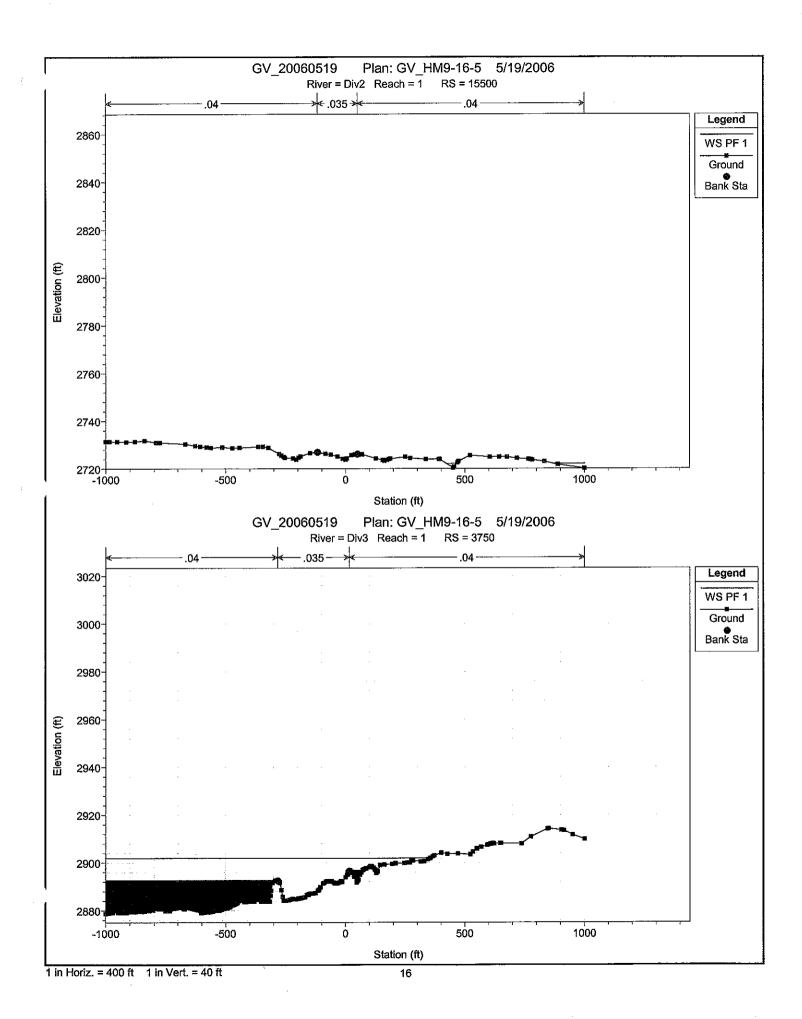


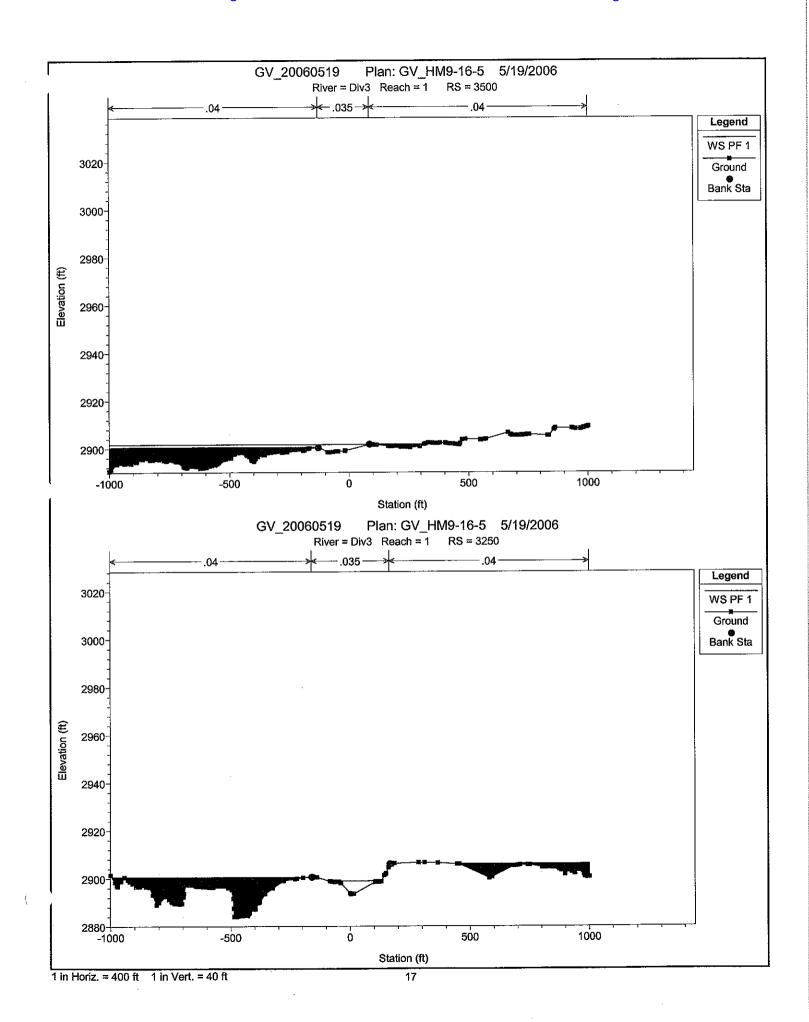


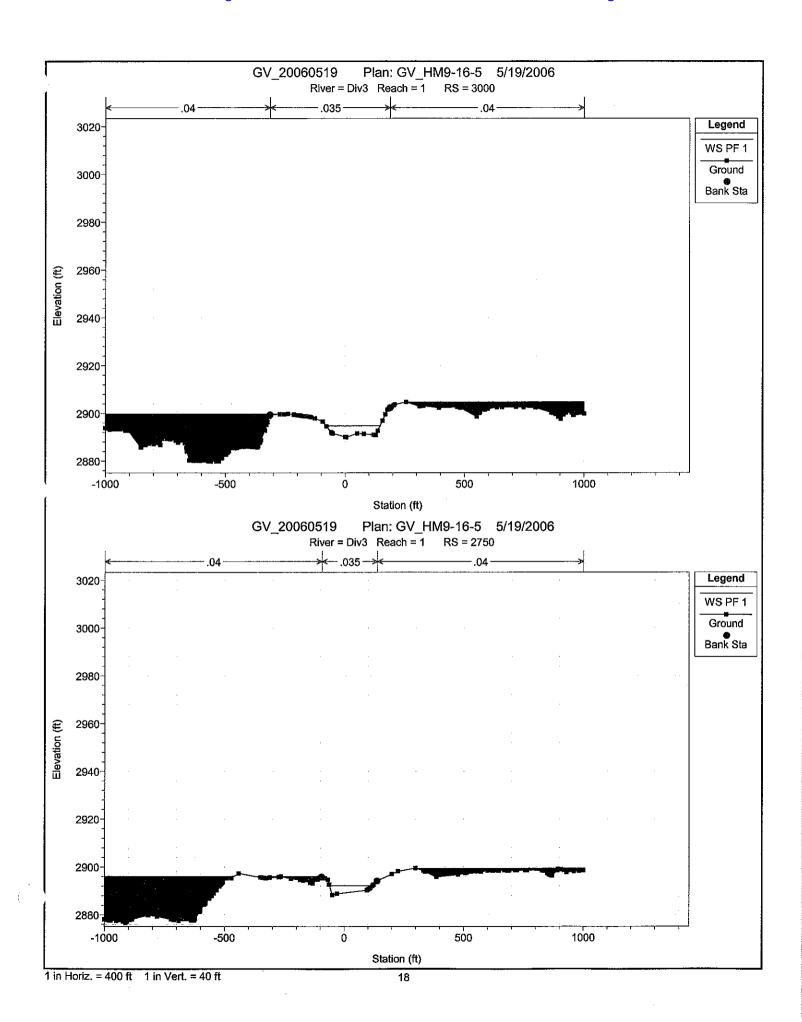


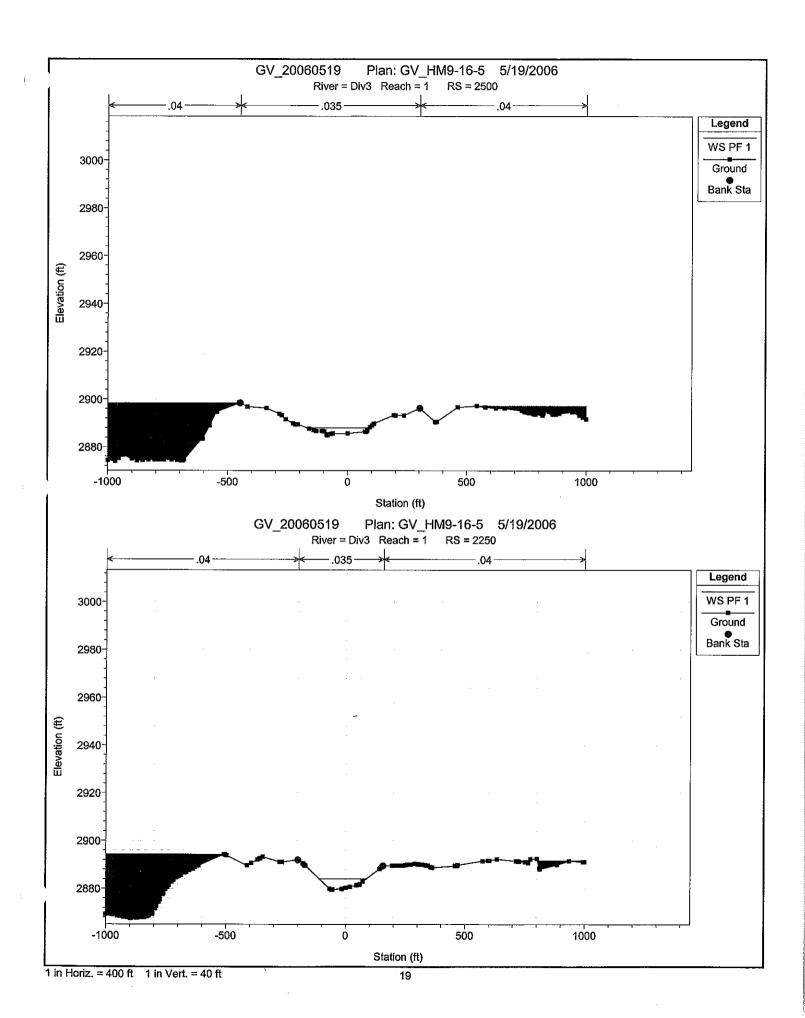


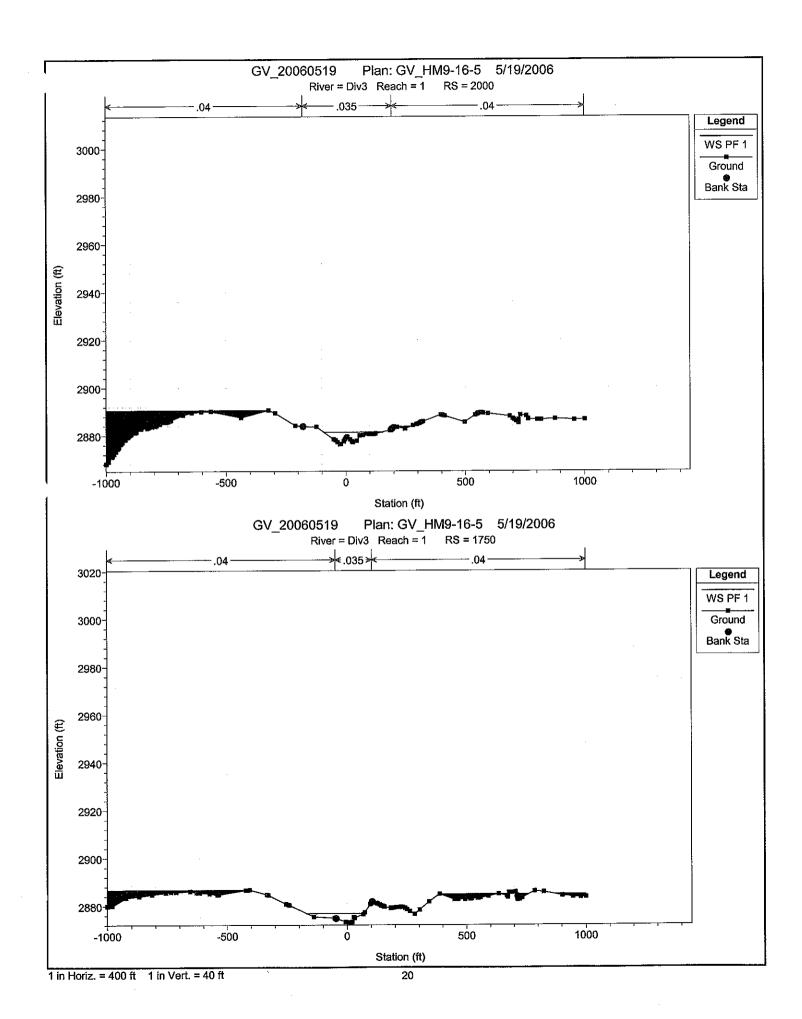


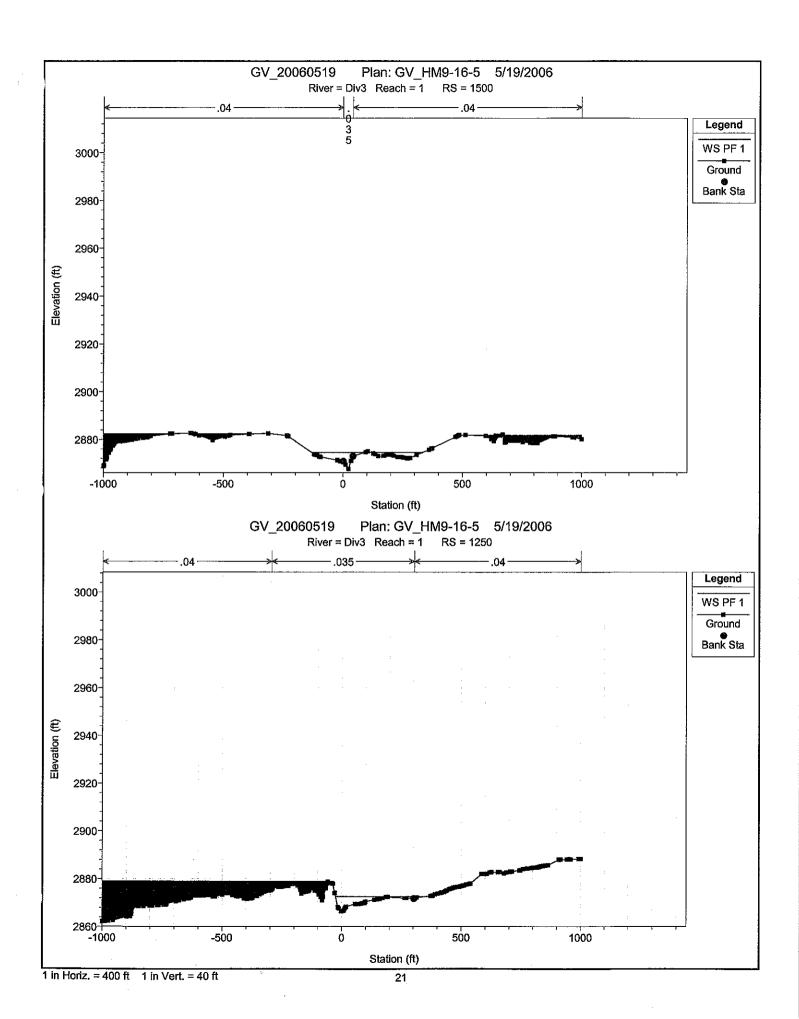


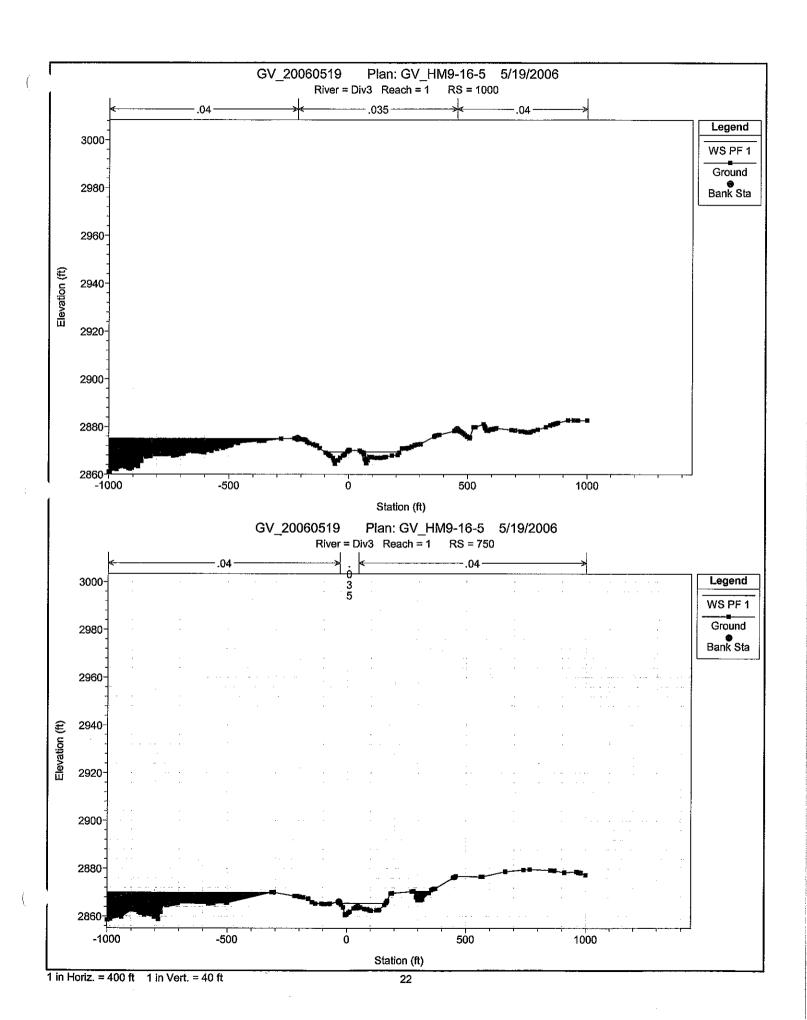


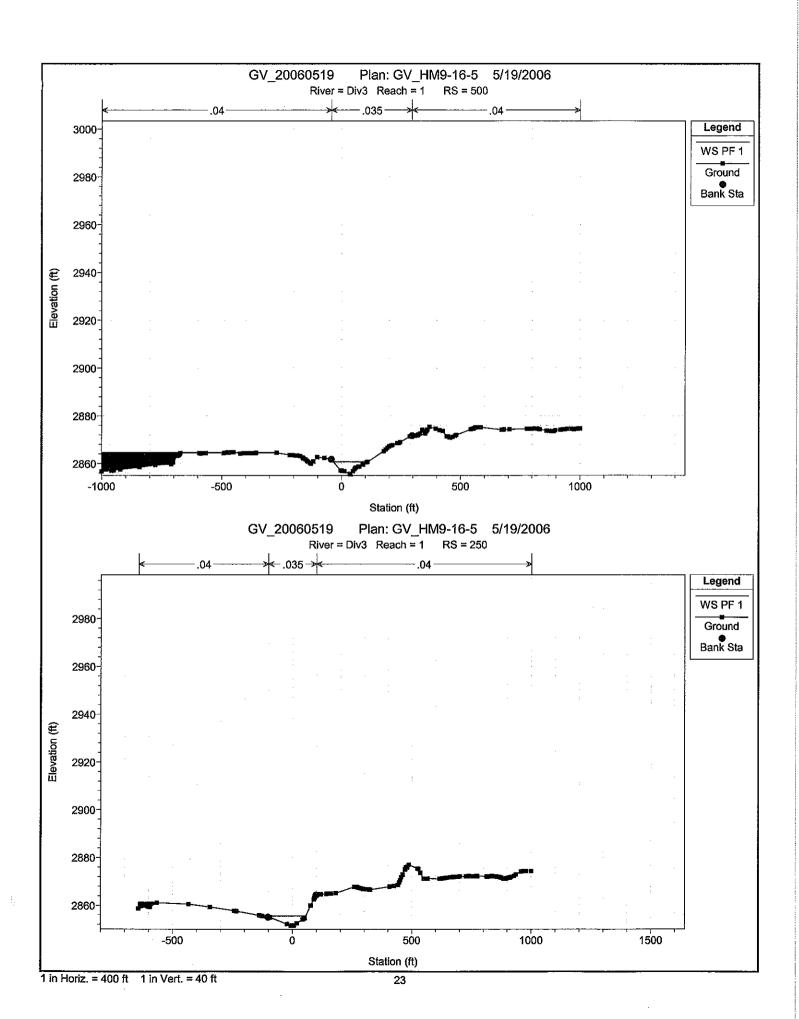


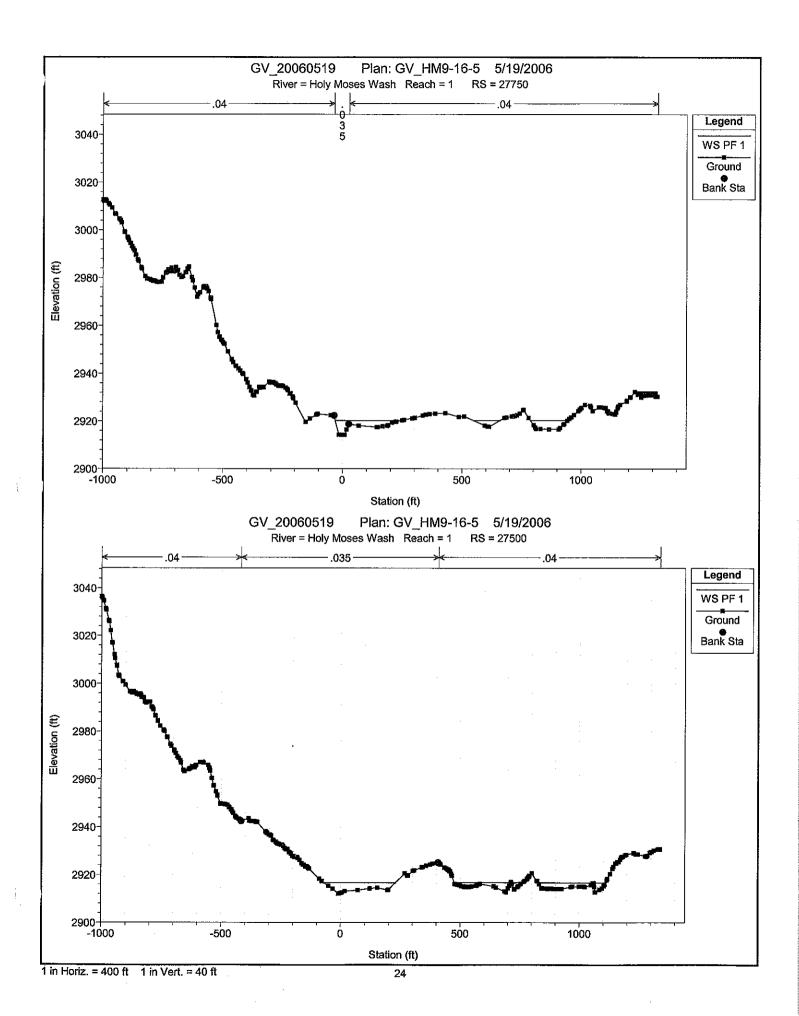


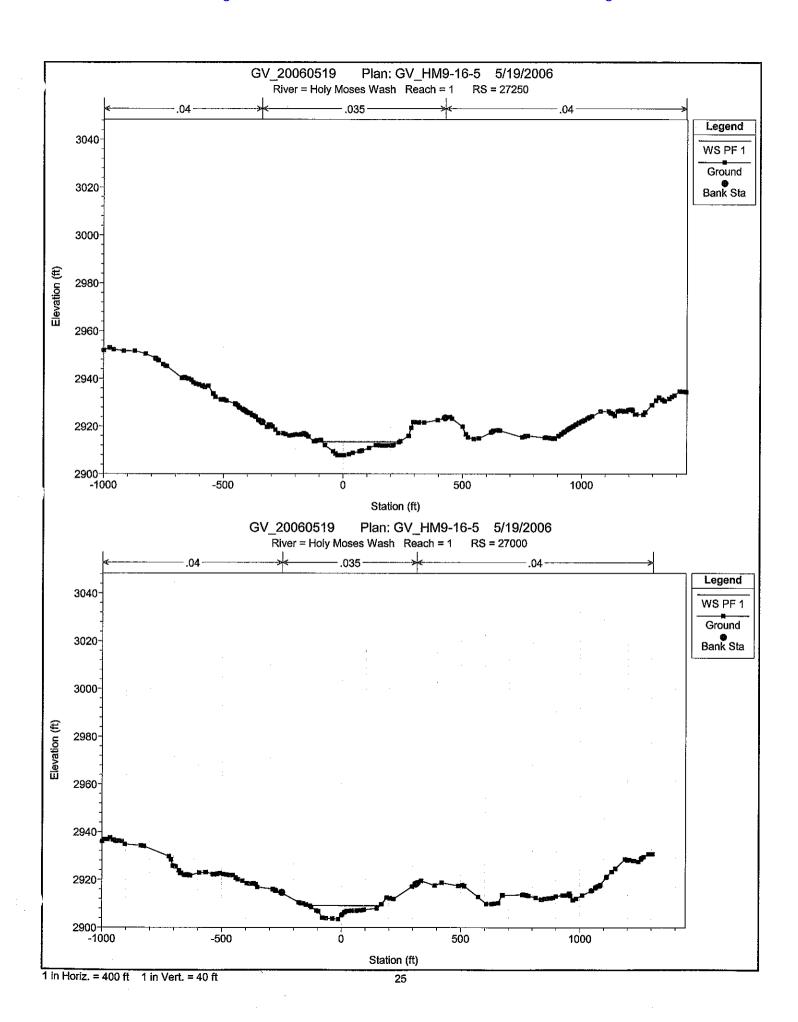


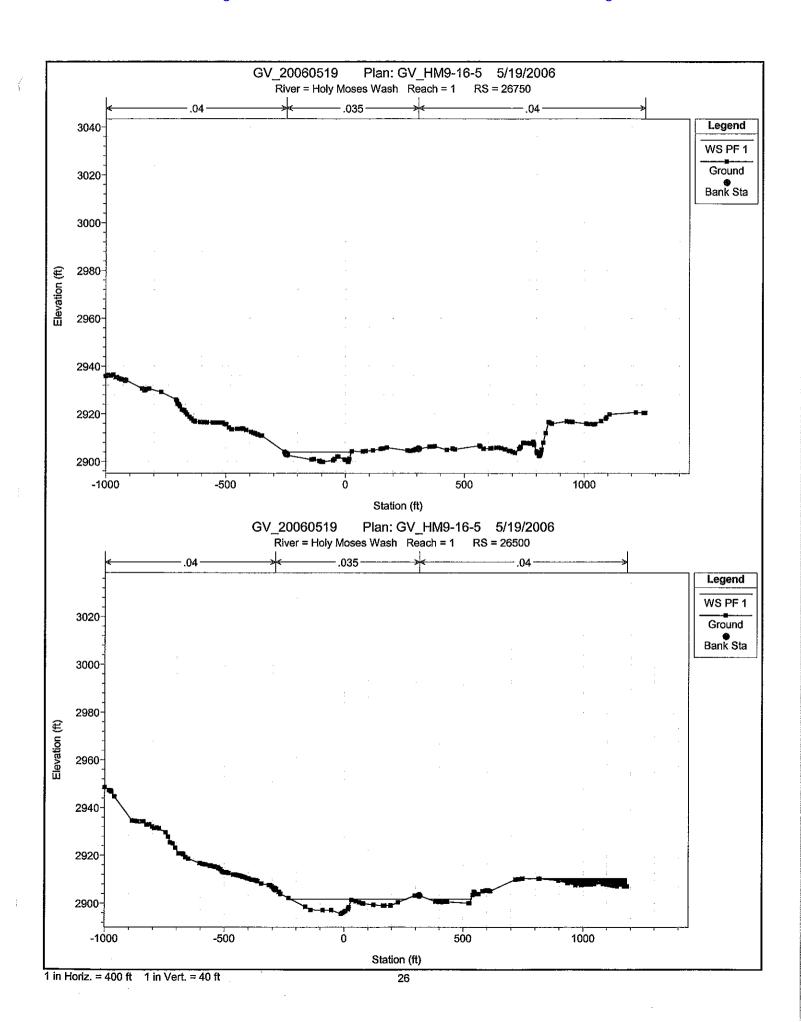


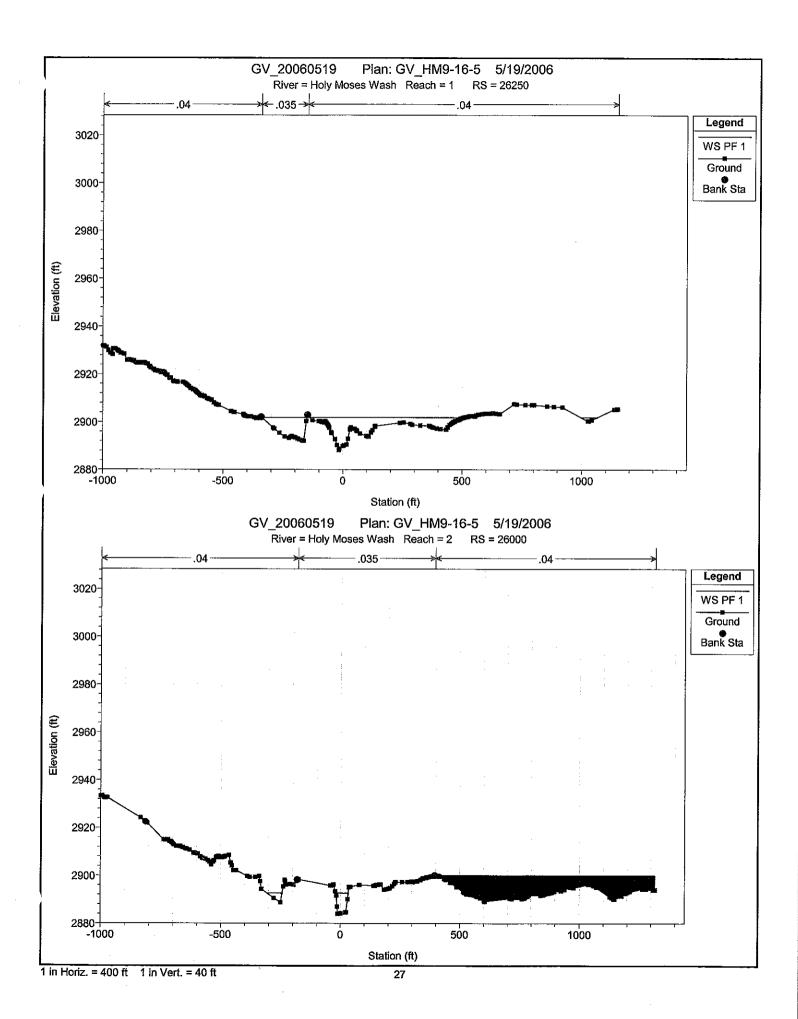


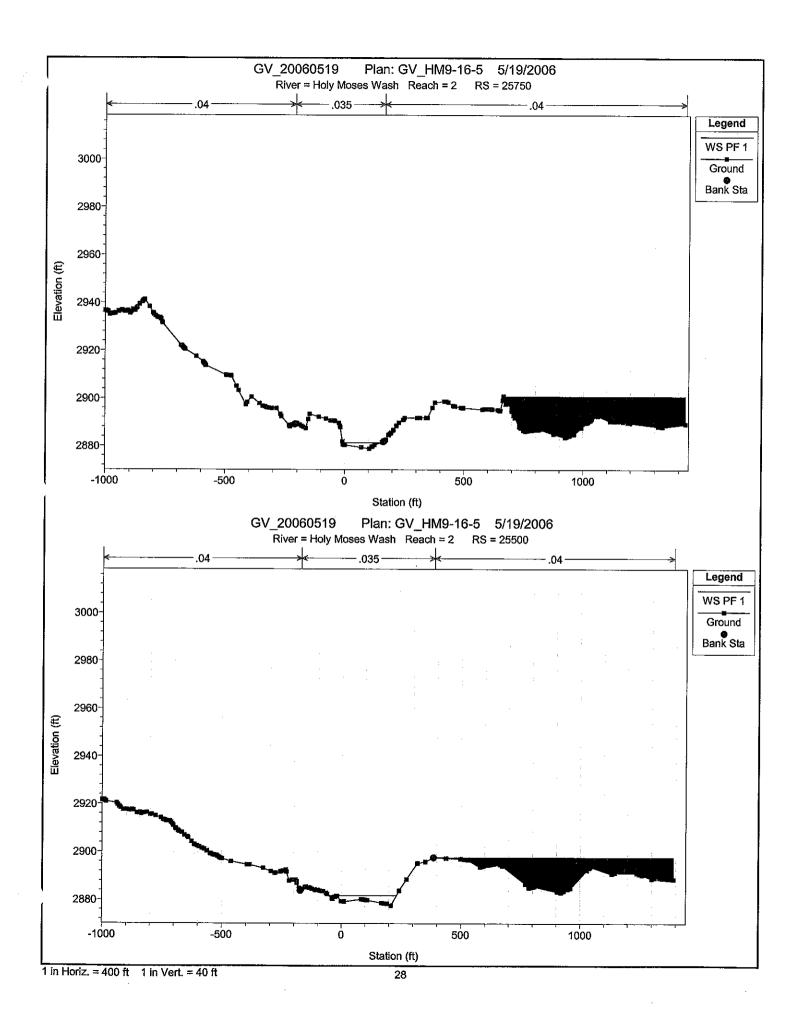


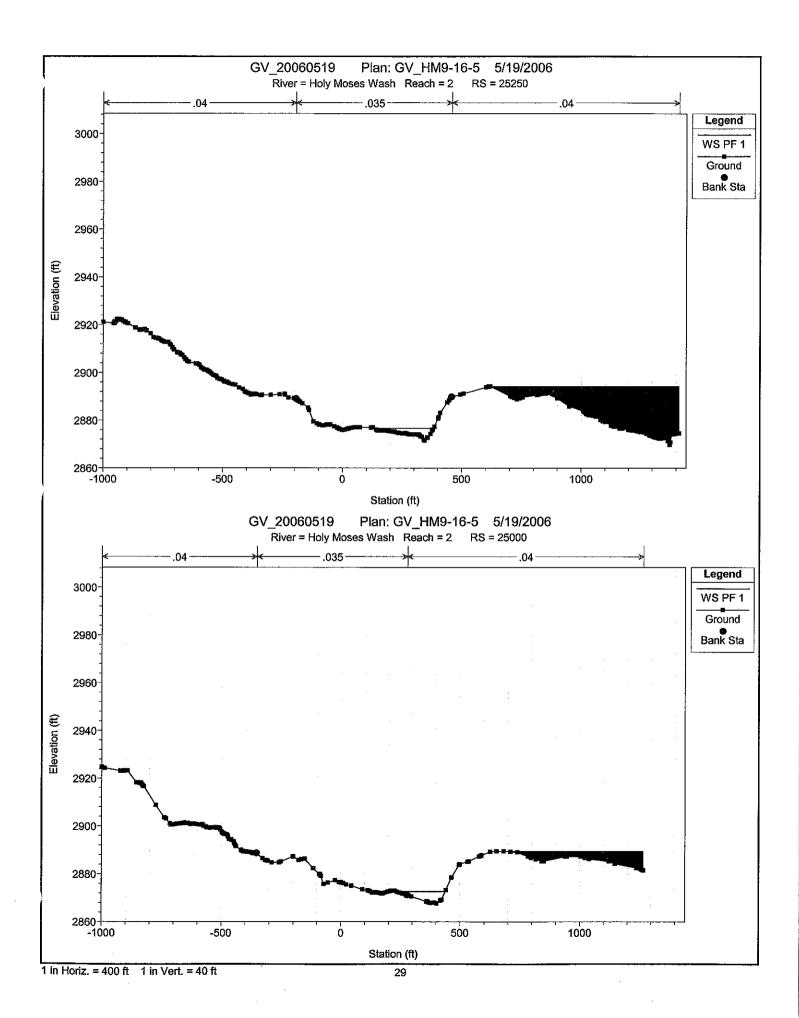


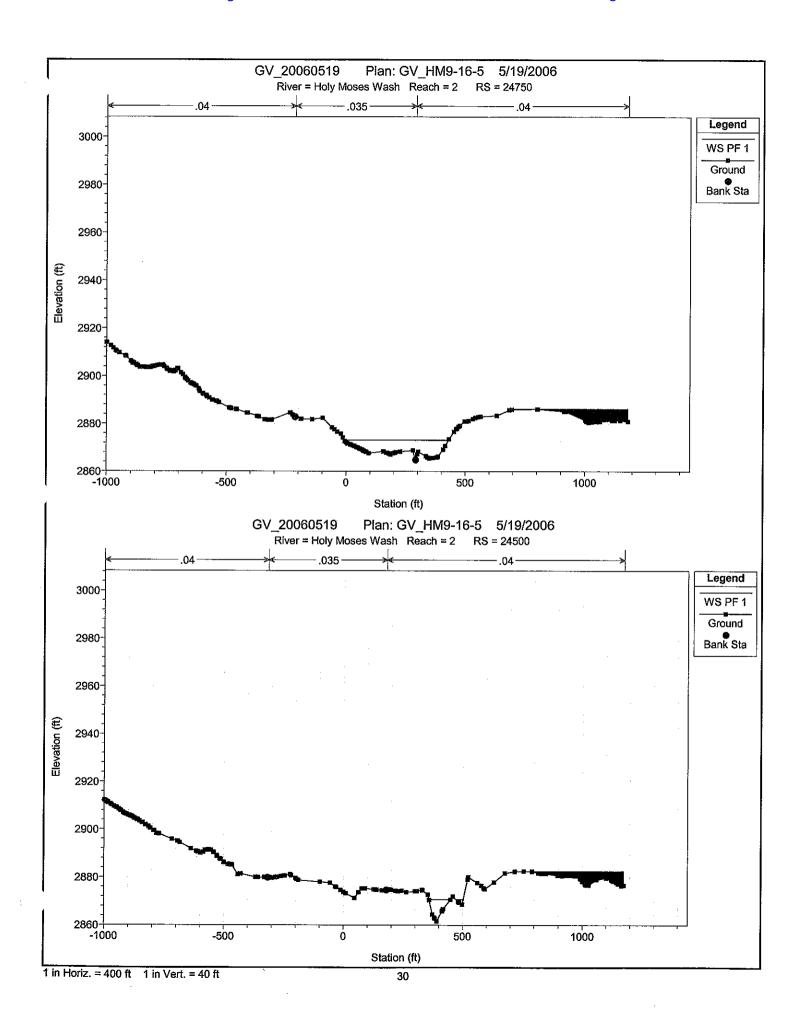


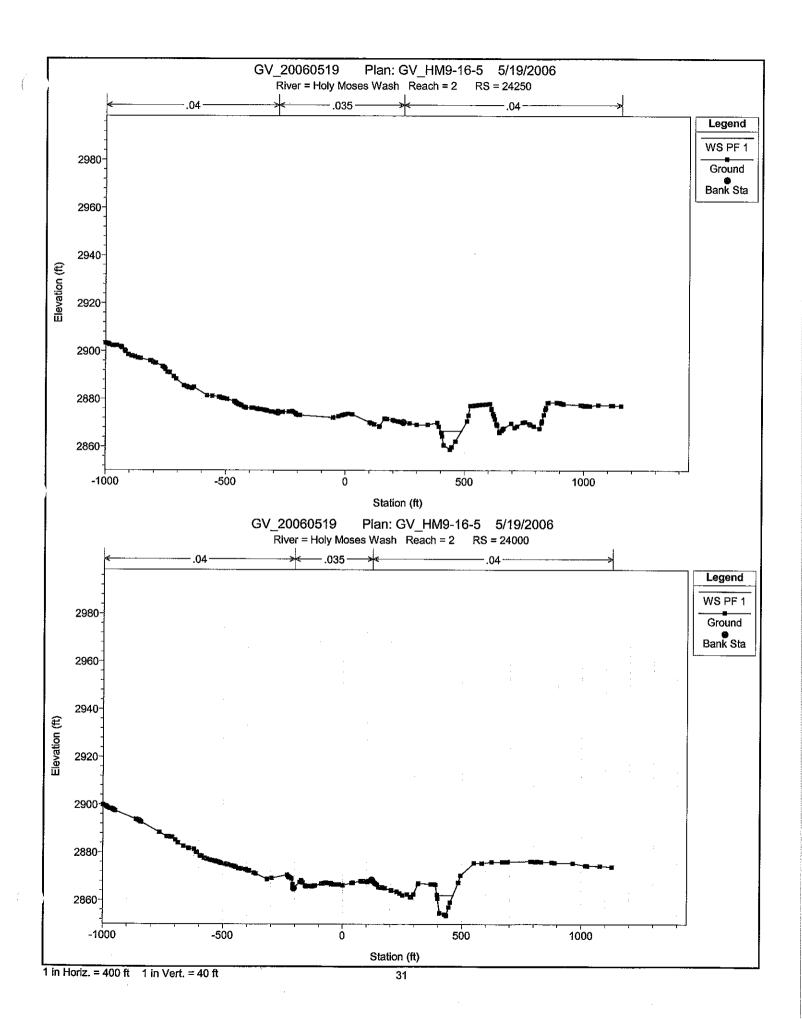


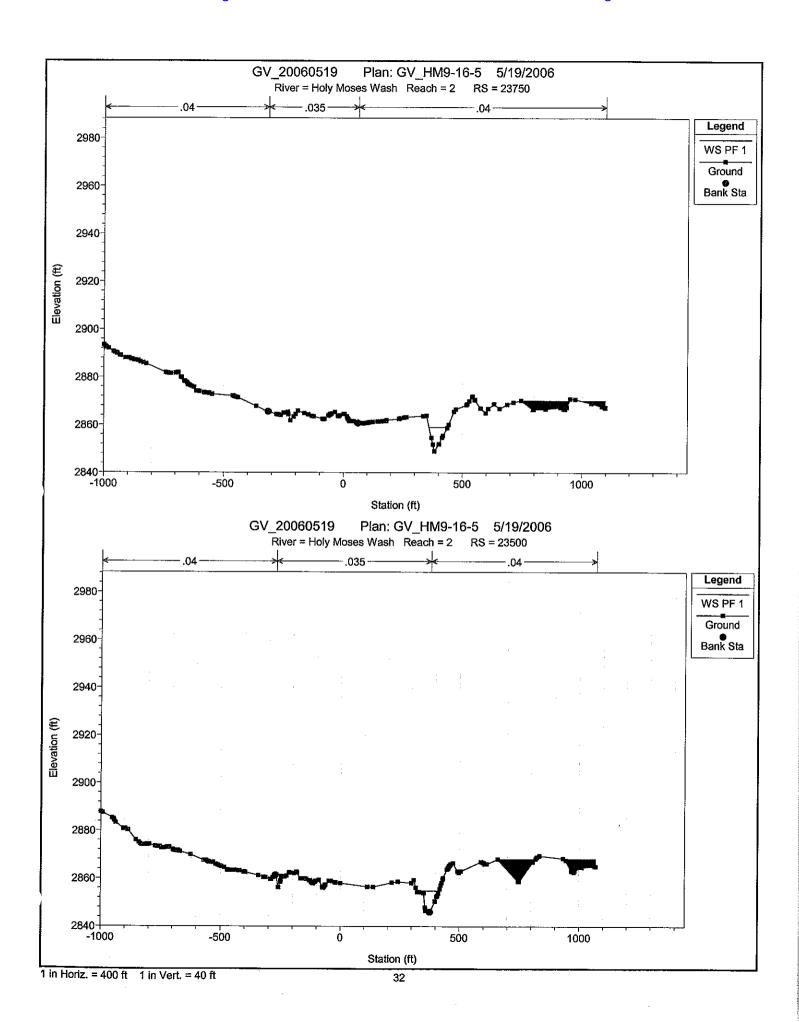


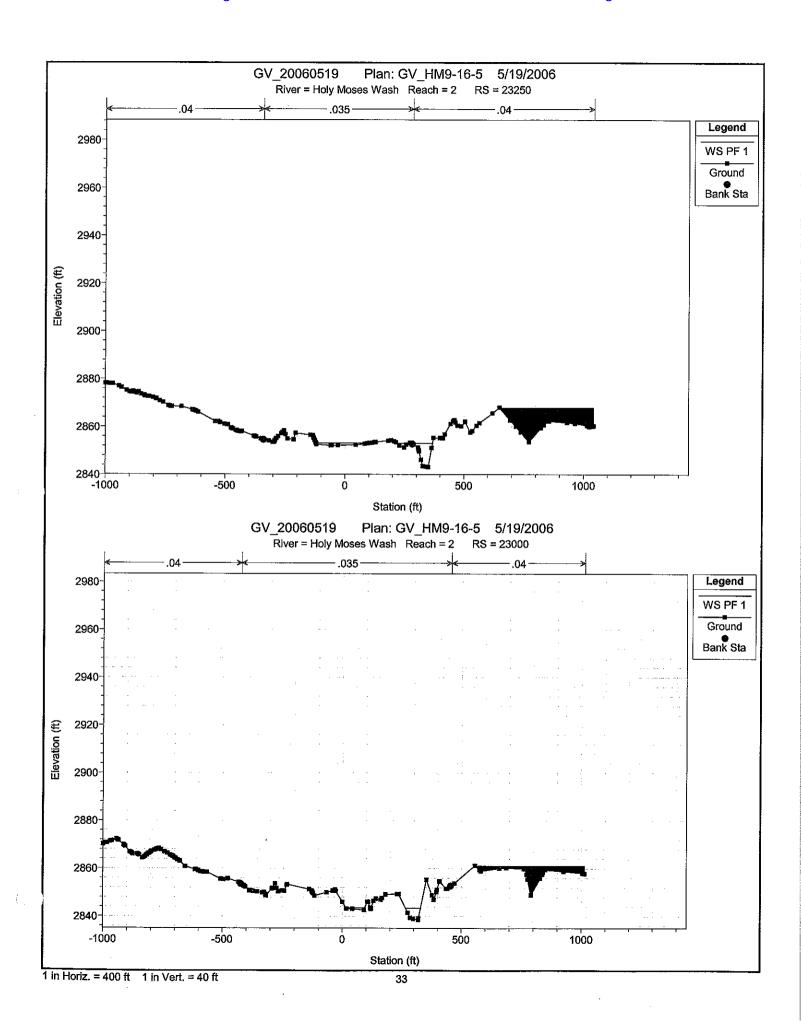


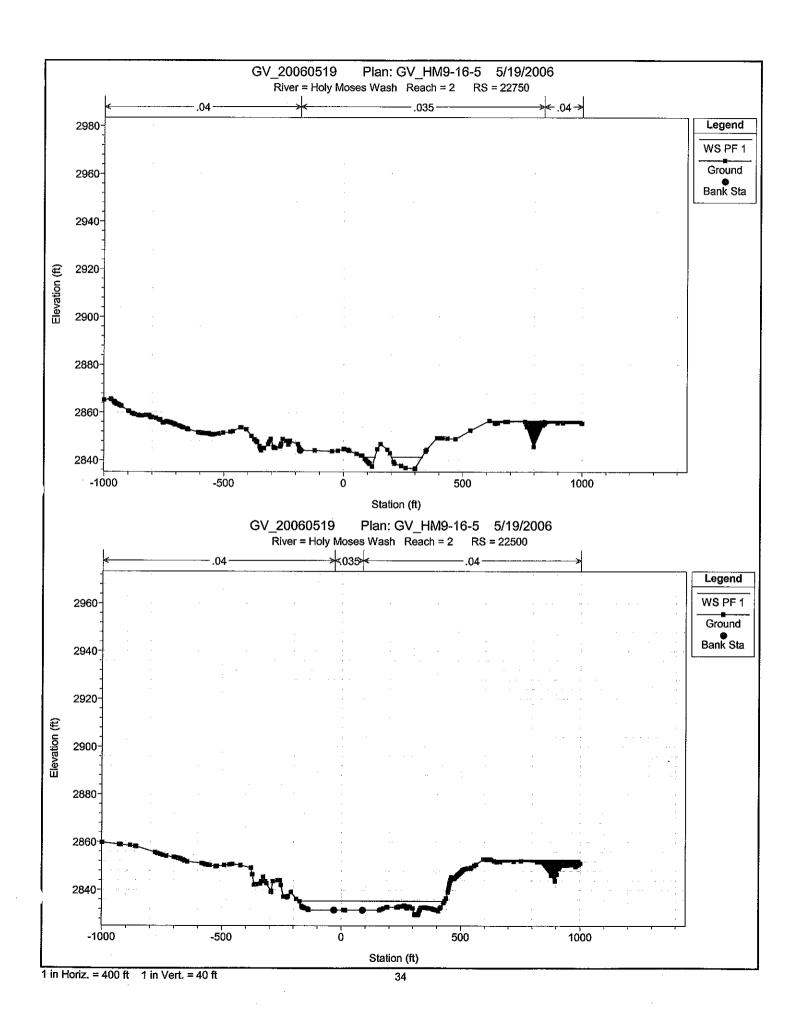


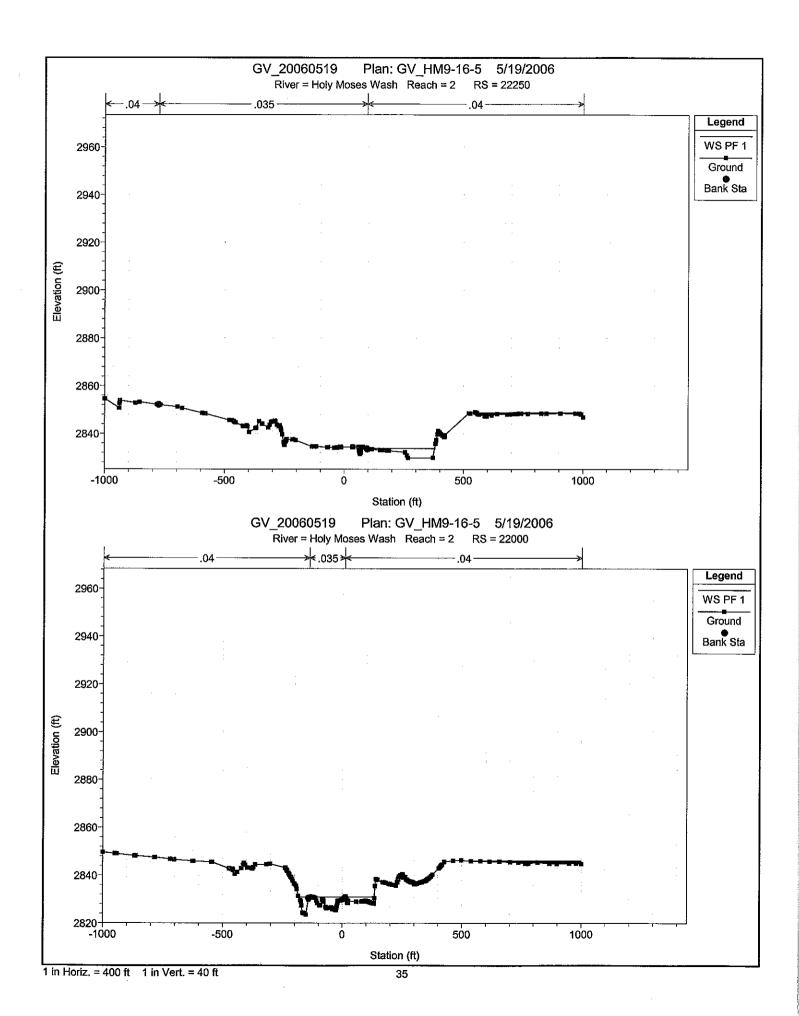


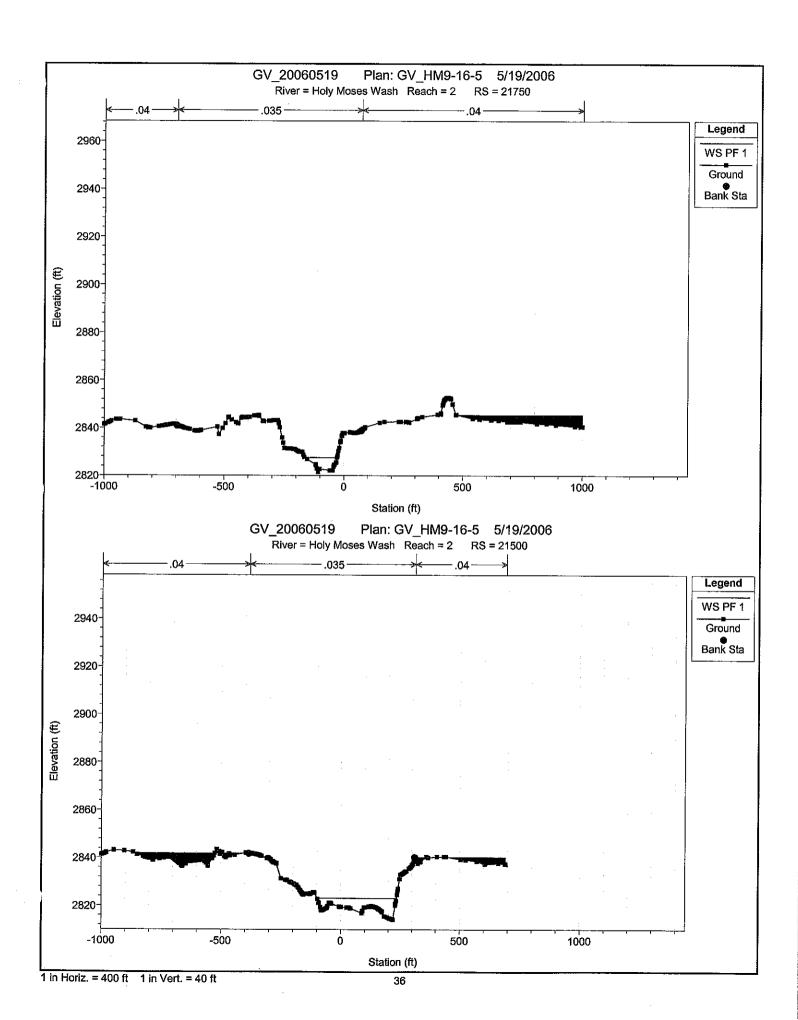


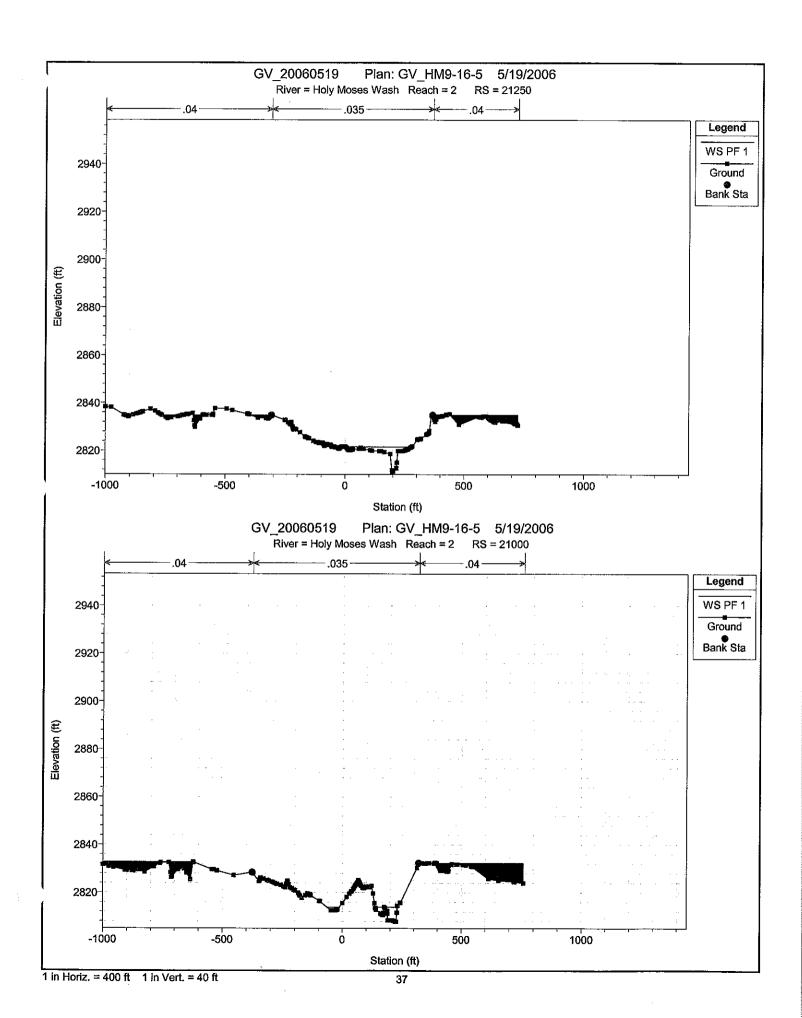


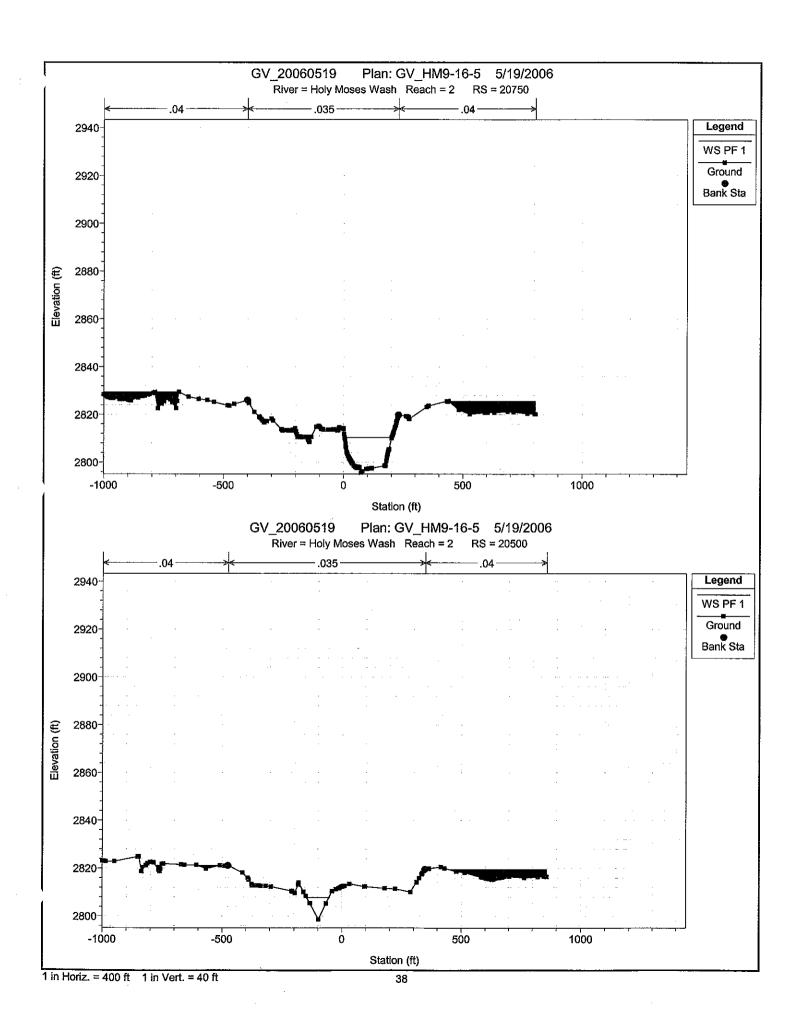


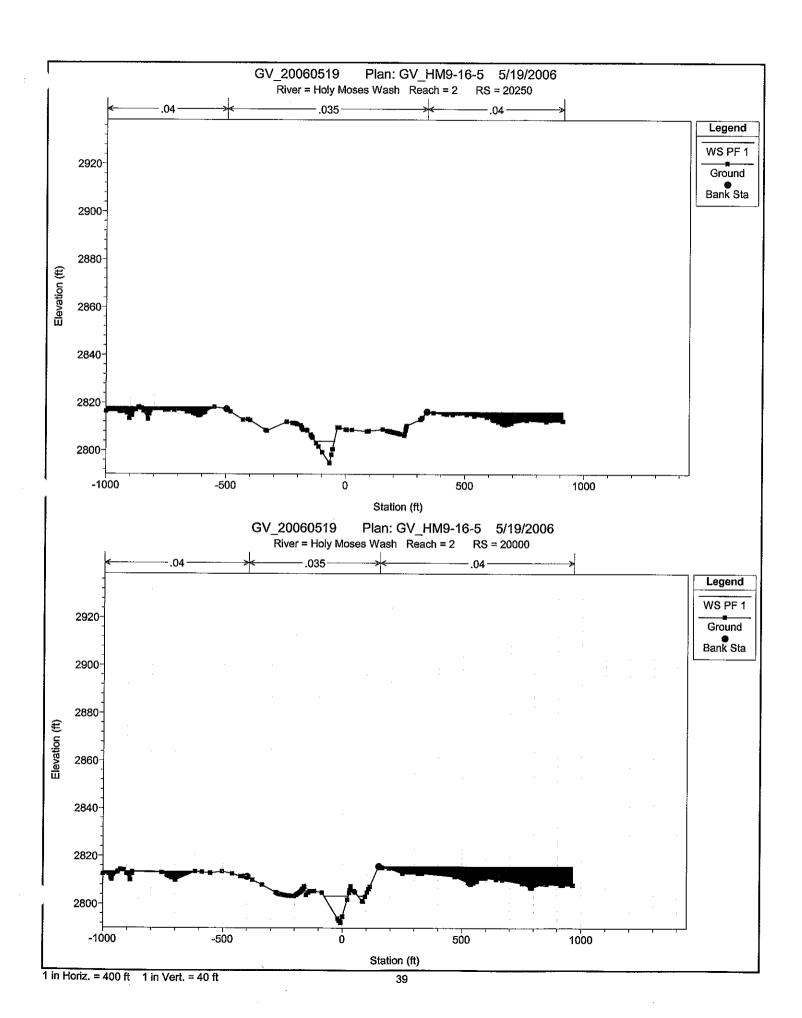


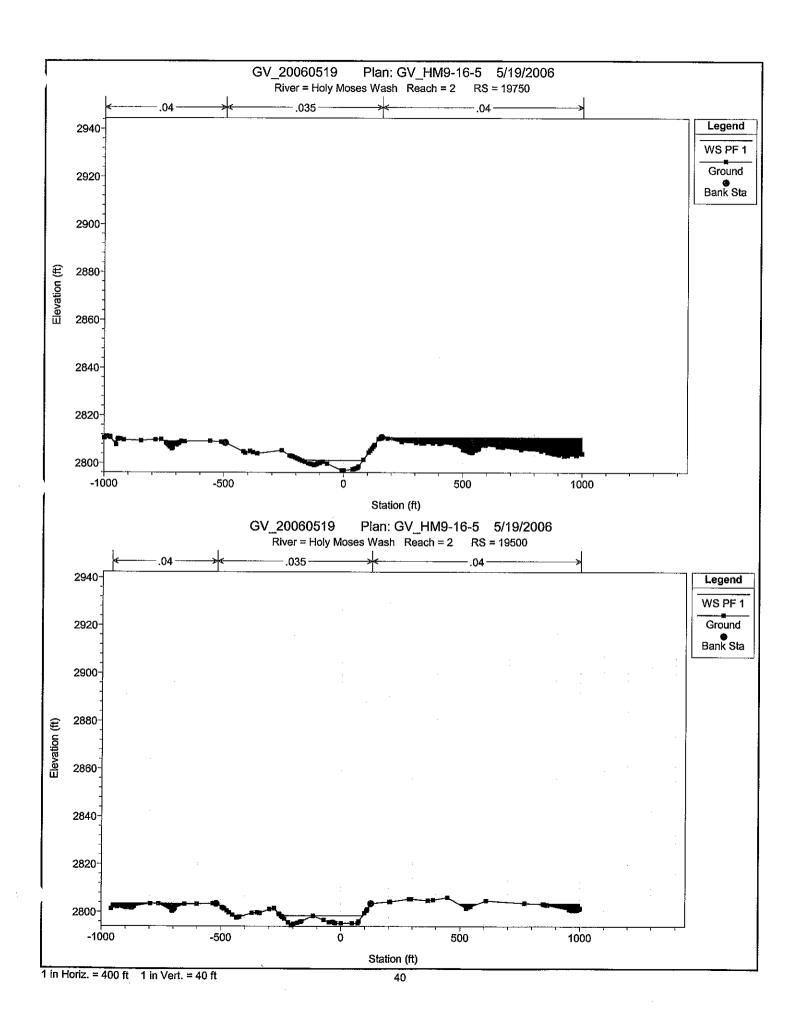


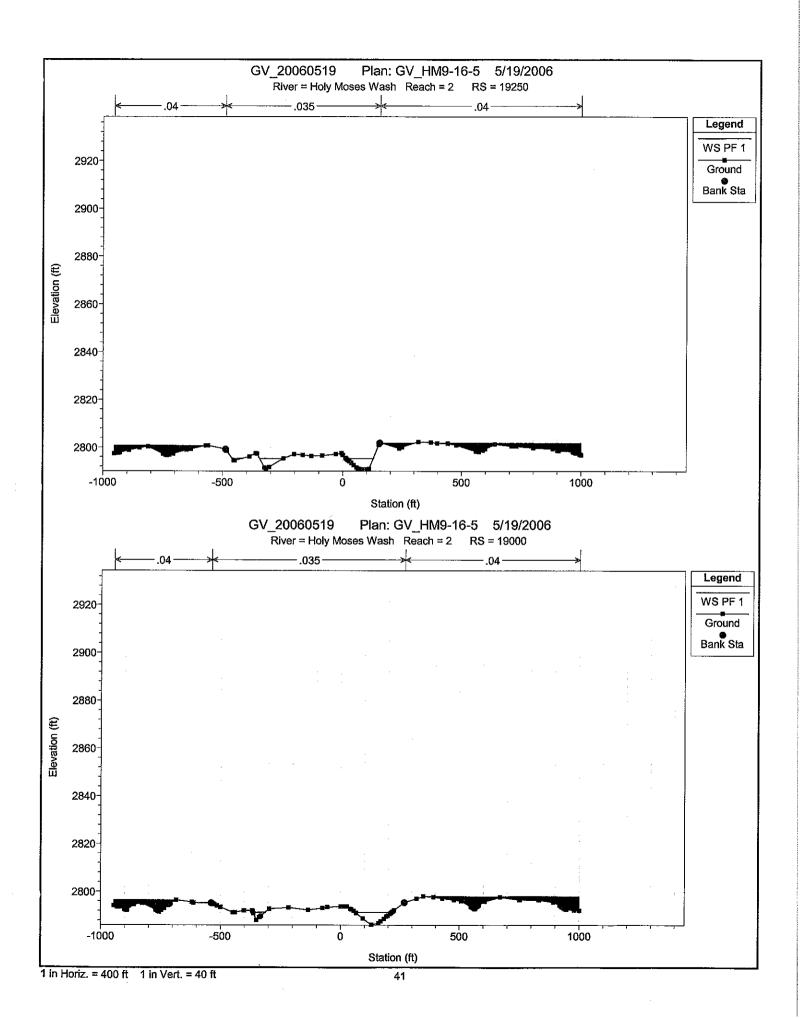


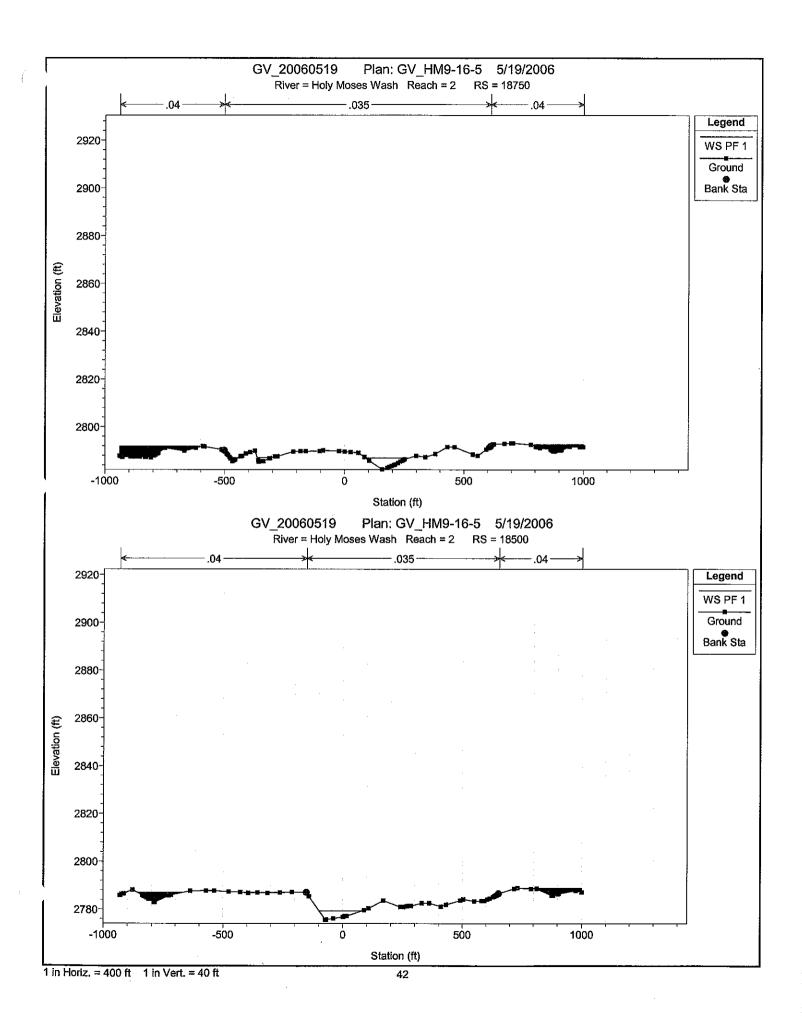


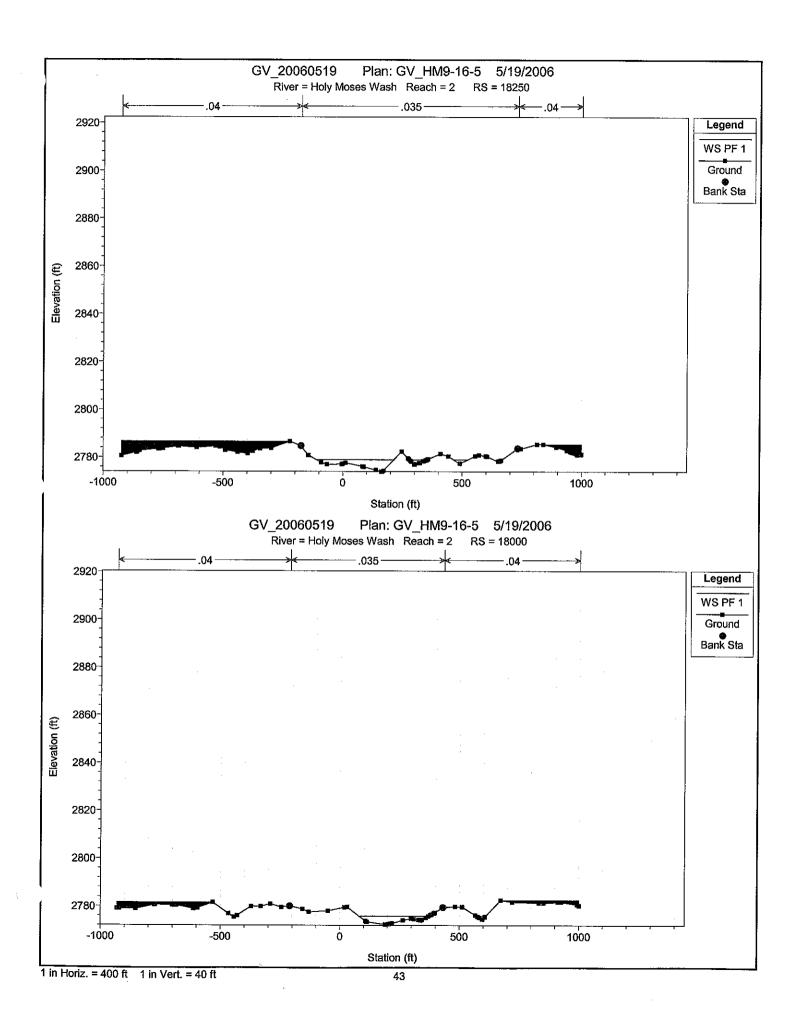


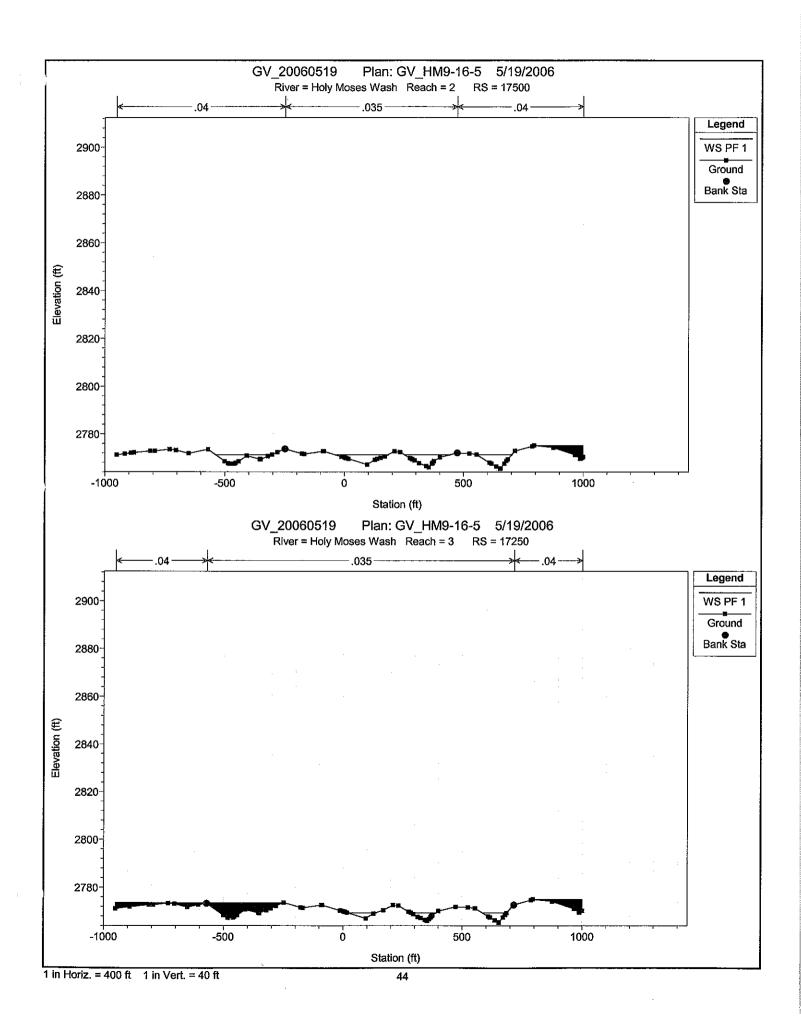


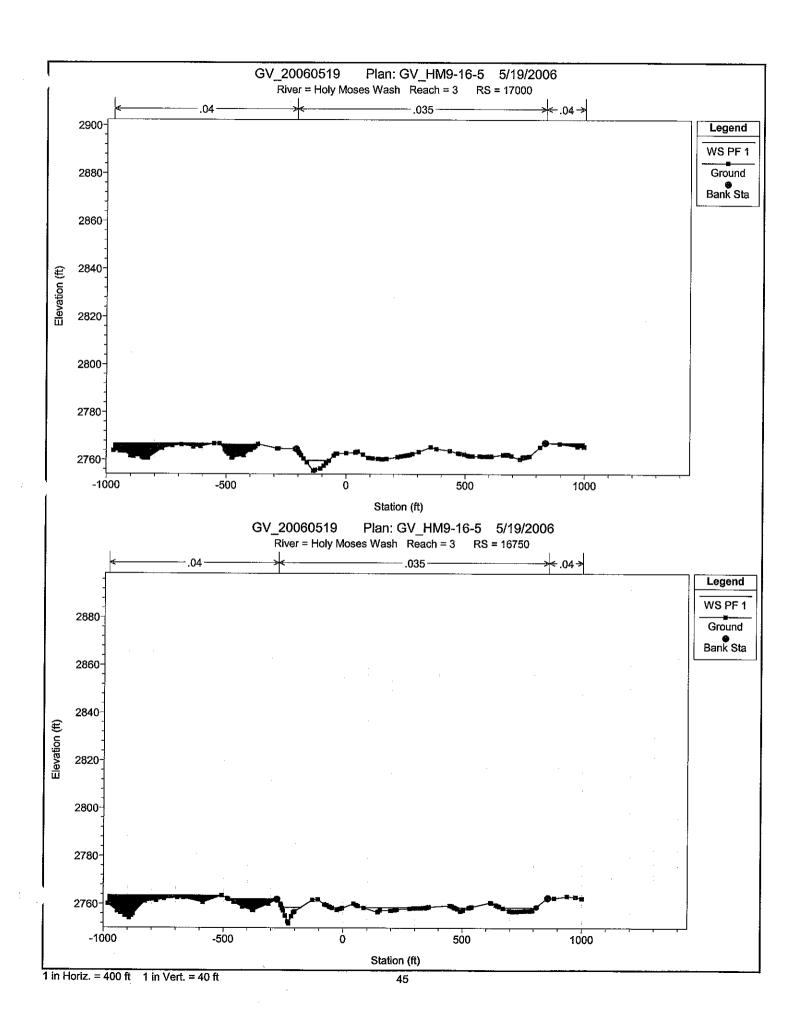


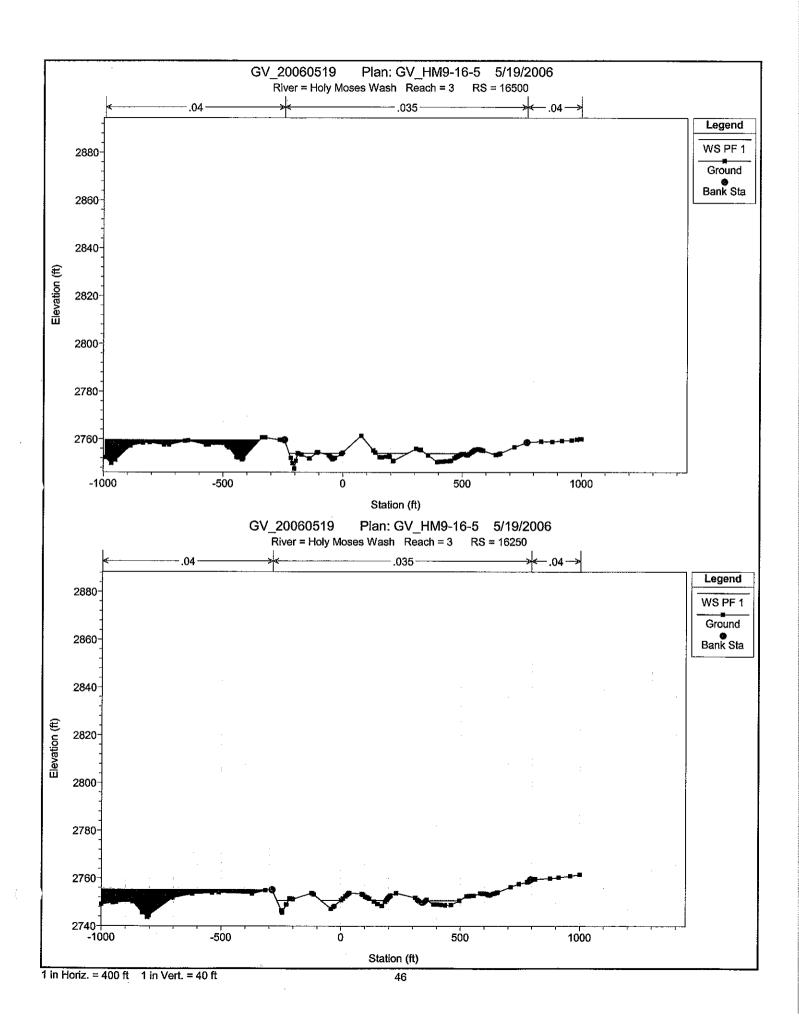


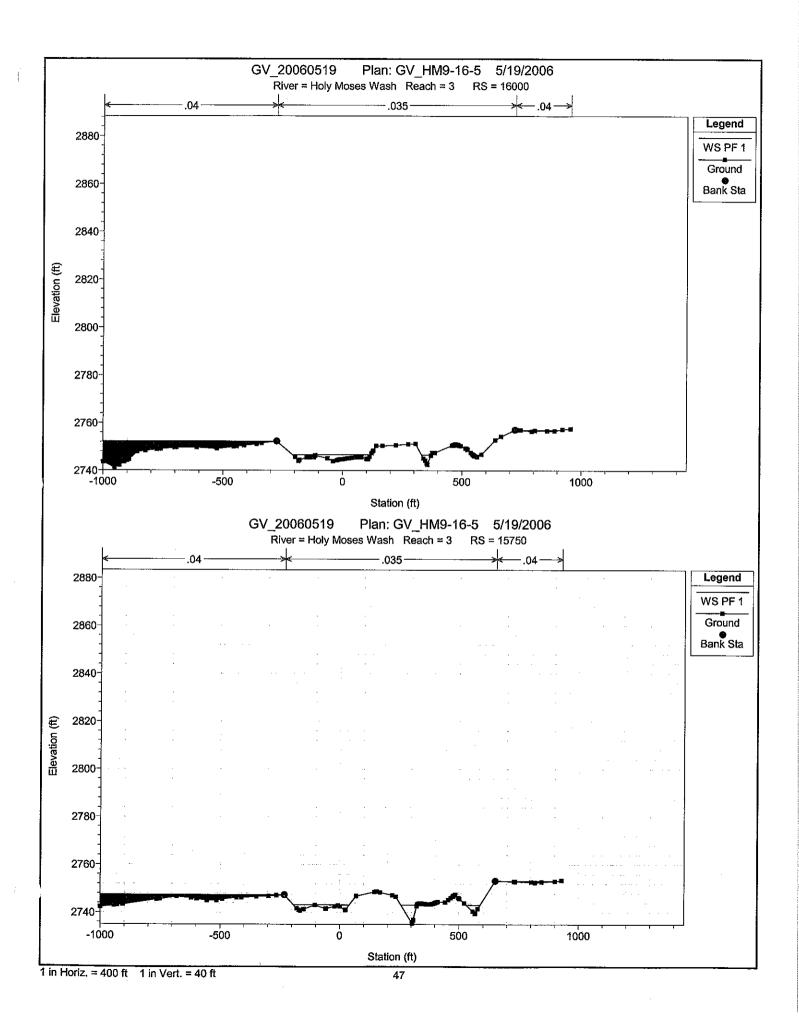


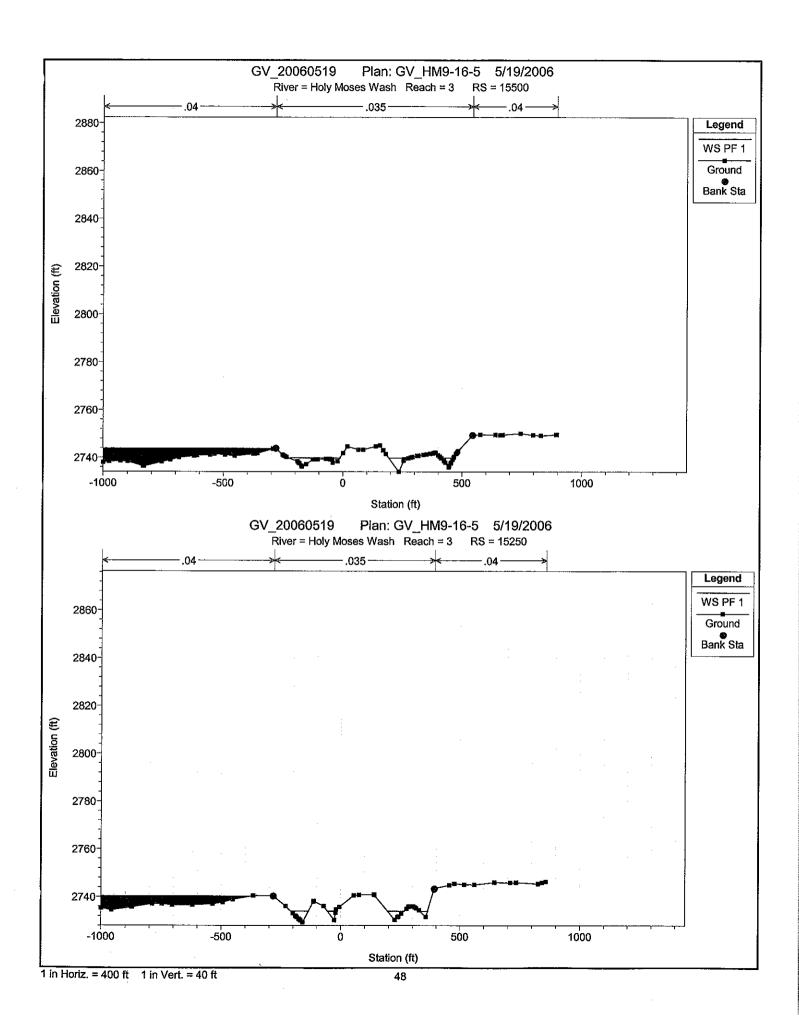


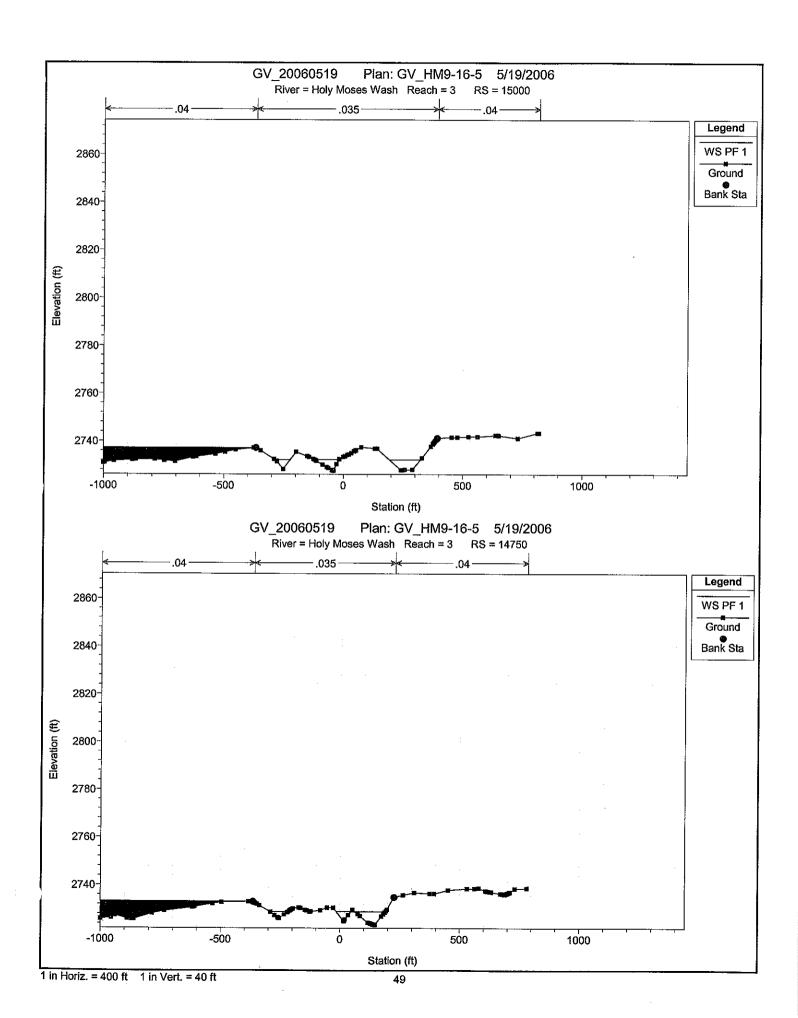


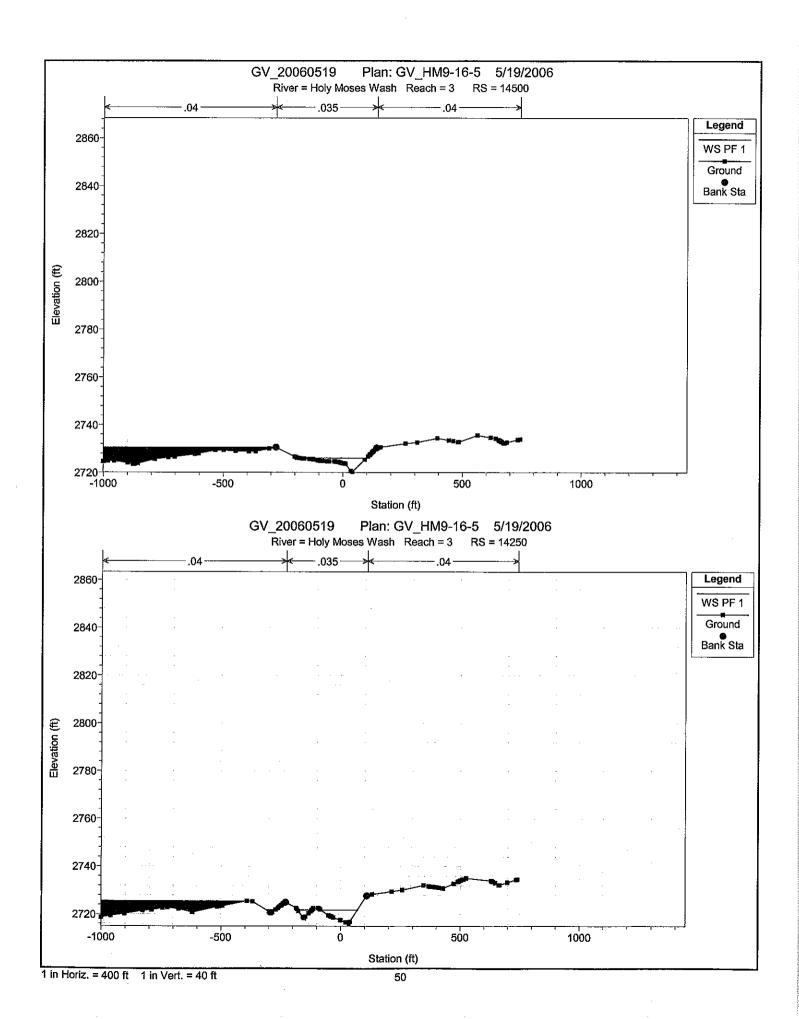


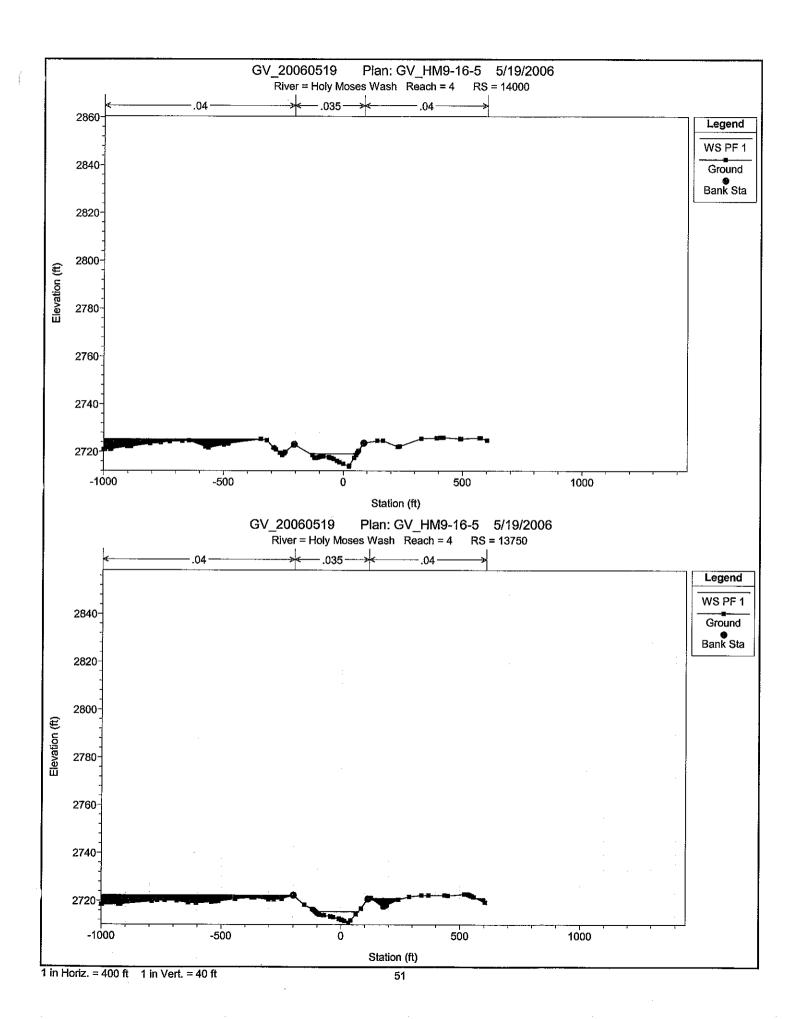


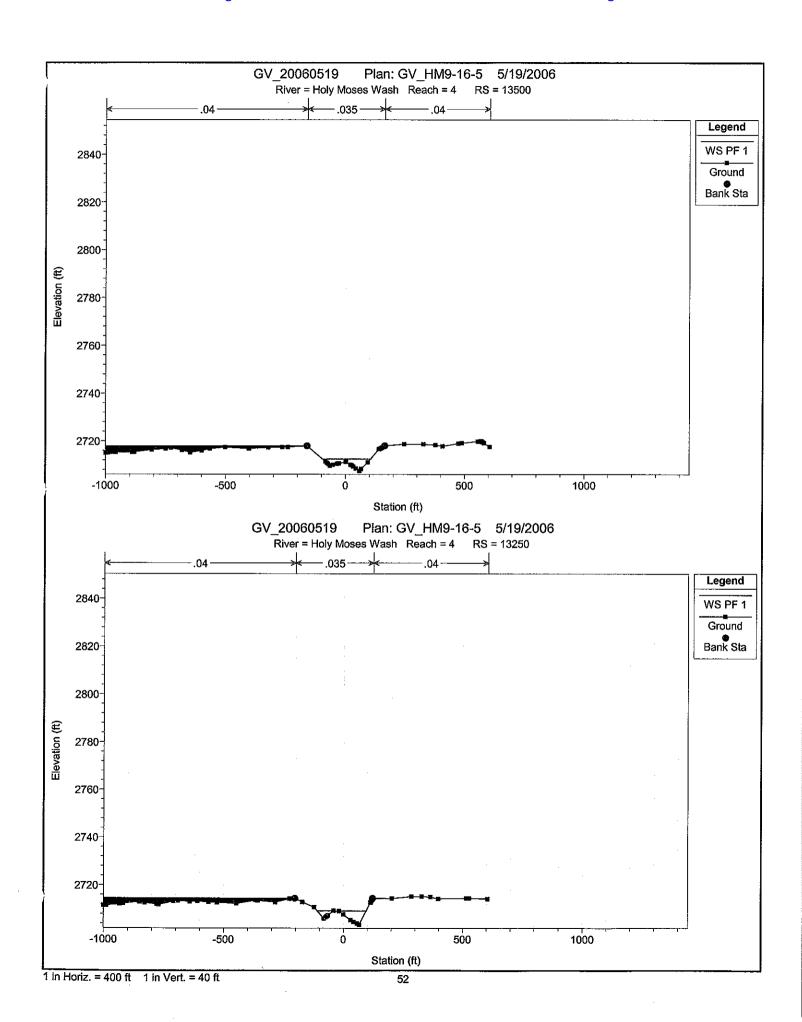


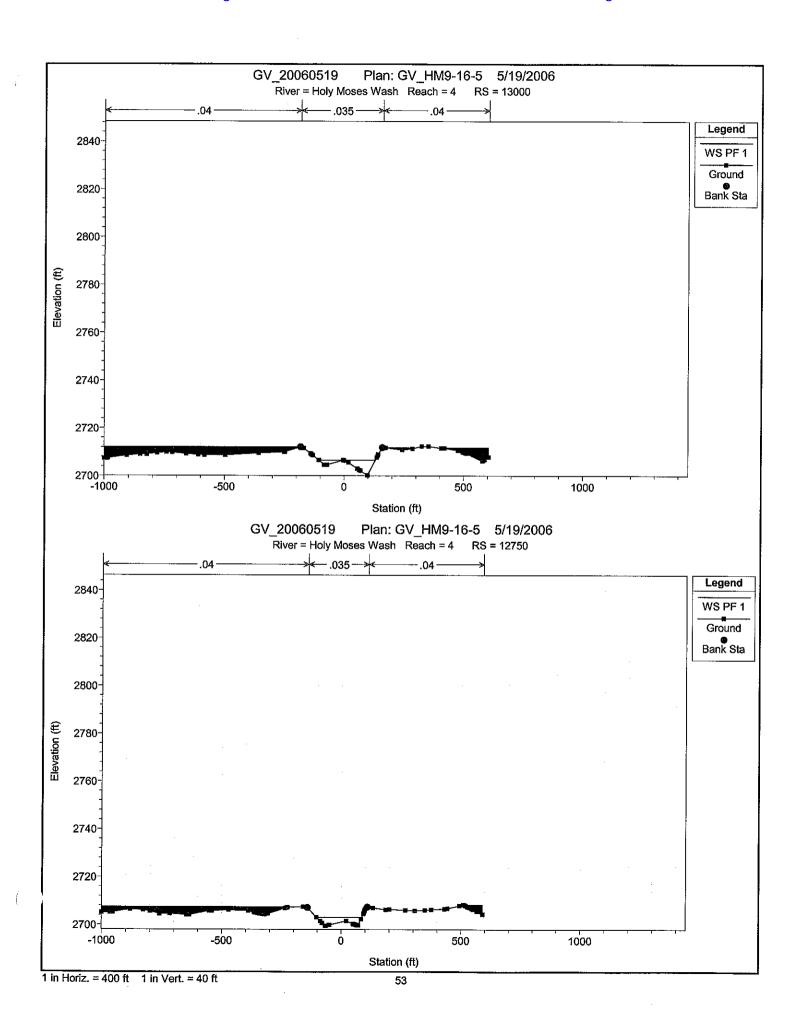


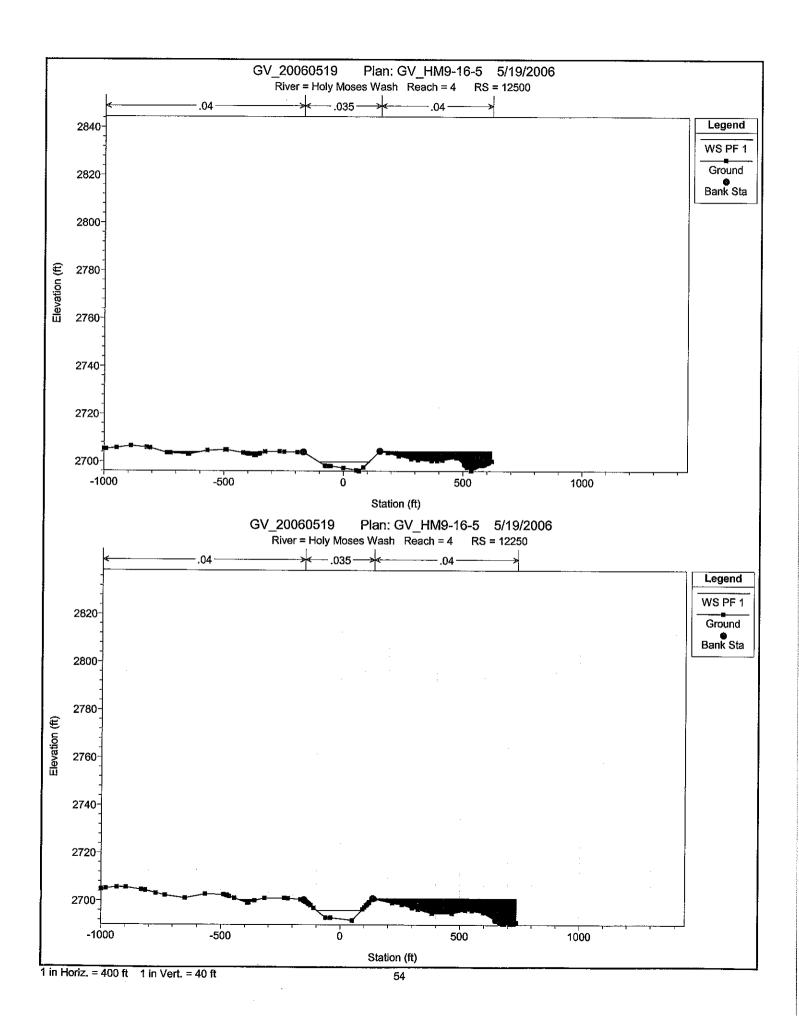


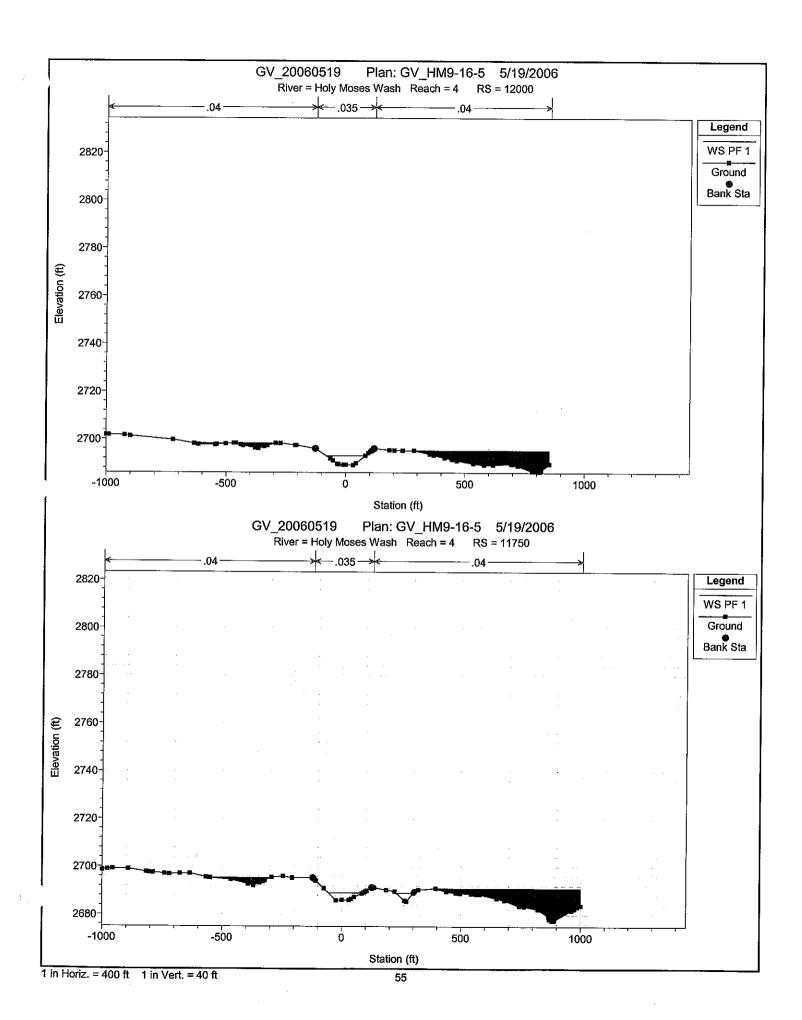


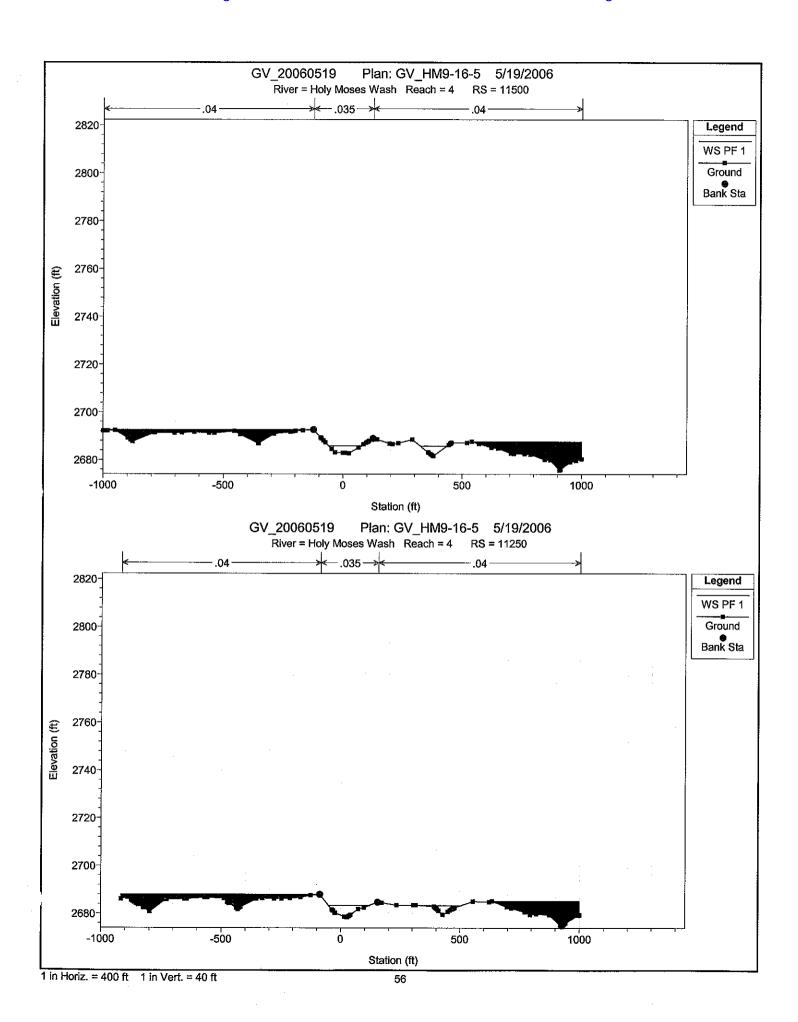


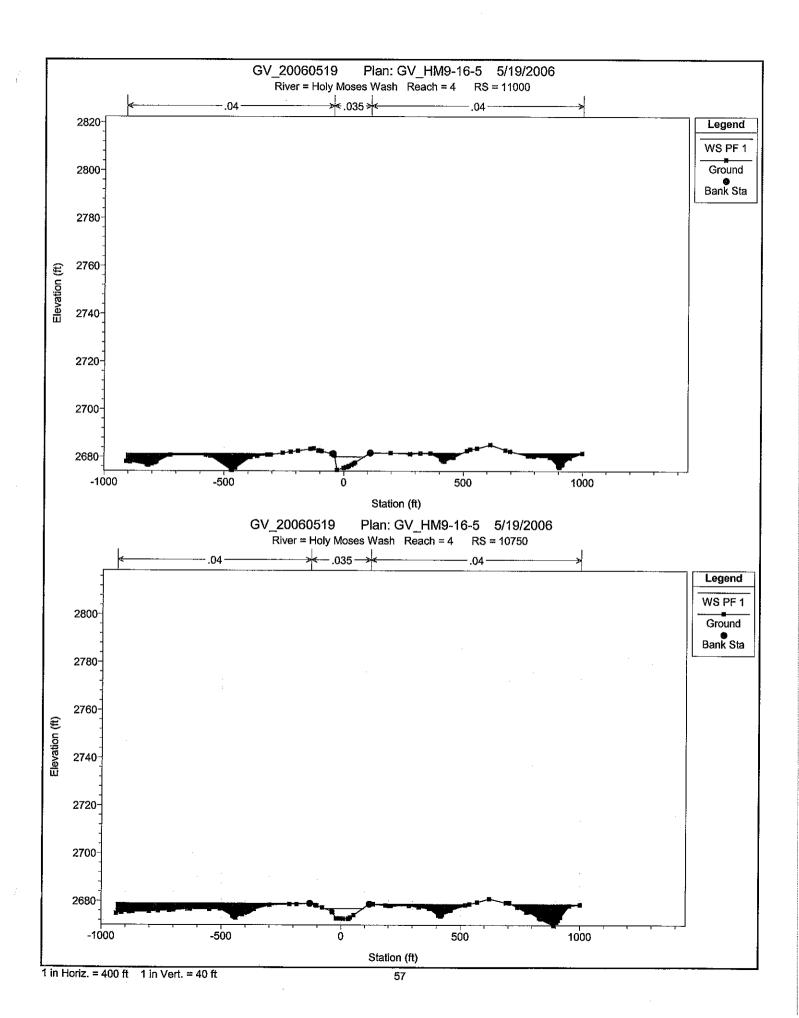


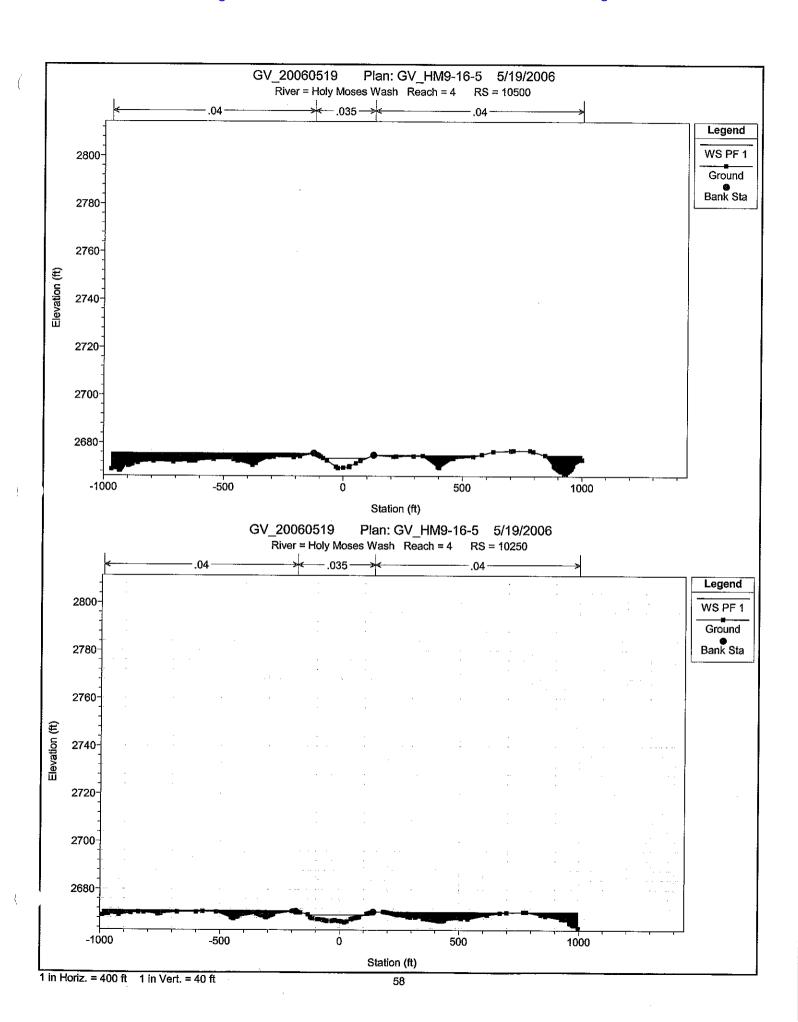












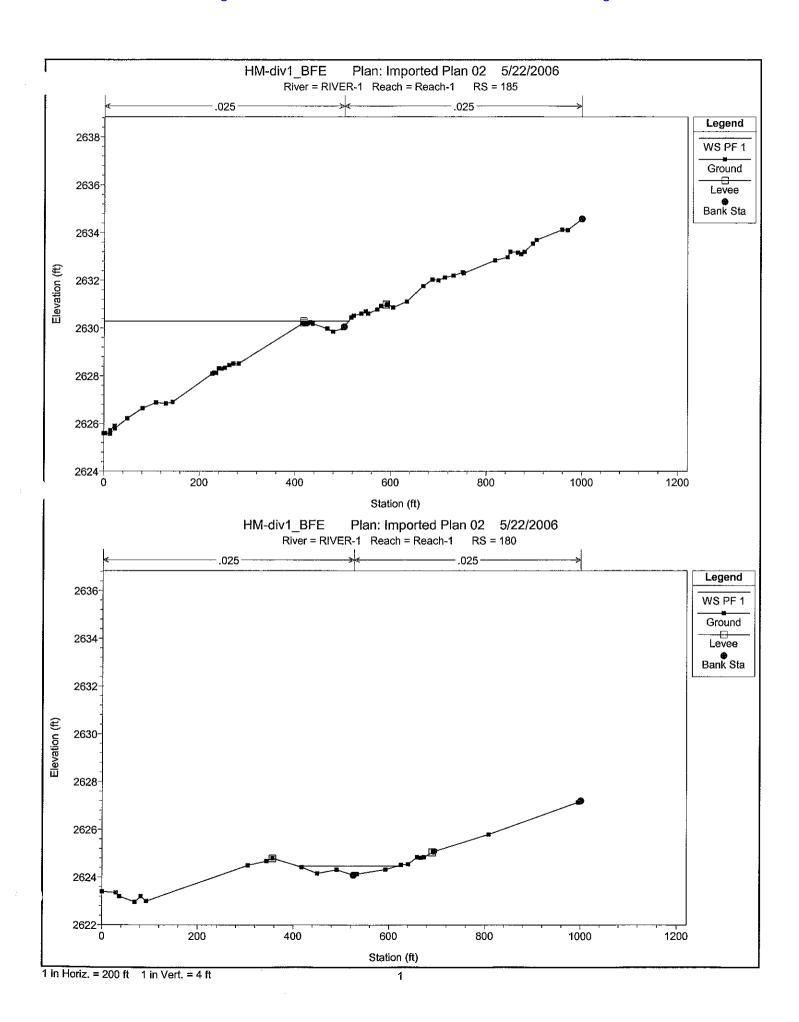
	IHEC-BAS	Dlan:	mported	Pla River:	DIVED 1	Reach: Re	och 1 Dro	file: PF 1	
Reach									Froude # Chl
Reacri	River Sta	FIORIE							rioude # Chi
Decel 4	040	DE 4	(cfs)	(ft)	(ft)	(ft/s)	(sq ft)	(ft)	0.00
Reach-1		PF 1	111			2.08	37.6	67.1	0.62
Reach-1		PF 1	111			1.11	28.76	62.49	
Reach-1		PF 1	111			3.52	29.47	71.39	
Reach-1		PF 1	111				21.58	44.02	
Reach-1		PF 1	111			3.79	18.28	93.8	
Reach-1		PF 1	111			3.29	33.39	101.93	
Reach-1		PF 1	111			2.71	35.34	133.32	
Reach-1		PF 1	111			0.71	34.75	97.82	
Reach-1		PF 1	111				25.43	42.26	
Reach-1		PF 1	111			1.83	35.35	175.28	
Reach-1		PF 1	111			2.13	22.79	76.97	
Reach-1		PF 1	111			1.38	40.83	149.61	0.69
Reach-1		PF 1	111				31.72	89.59	
Reach-1		PF 1	111			1.82	57.3	109.33	
Reach-1		PF 1	111				38.79	99.26	
Reach-1		PF 1	111			3.63	27.17		
Reach-1		PF 1	111			0.83	26.22	64.51	0.74
Reach-1		PF 1	111			1.07	24.98		
Reach-1		PF 1	111				20.33		
Reach-1		PF 1	111			5.28	21.49		1.11
Reach-1		PF 1	111				23.05		1.05
Reach-1		PF 1	111				32.52		
Reach-1		PF 1	111			0.12	24.2		
Reach-1		PF 1	111				17.28	35.98	
Reach-1		PF 1	111				28.75	46.35	
Reach-1		PF 1	111				28.06	55.78	
Reach-1		PF 1	111			2.18	32.16		
Reach-1		PF 1	111				39.62	158.38	
Reach-1		PF 1	111			0.02	1044.37	511.13	
Reach-1		PF 1	111				898.33	480.04	
Reach-1		PF 1	111			7.84	14.02	136	
Reach-1		PF 1	111			2.65	42.42	206.25	
Reach-1		PF 1	111		2625.73	2.49	45.55	190.9	
Reach-1		PF 1	111		2624.48	2.45		209.91	
Reach-1		PF 1	111		2623.03	2.92	37.96	147.52	1.02
Reach-1		PF 1	111		2621.01		310.24	256.2	0
Reach-1		PF 1	111	2620.59	2620.12		370.96	502.77	0
Reach-1	176	PF 1	111	2619.12	2618.55		11.62	118.24	0
Reach-1	175	PF 1	111	2617.6	2617.43		295.26	414.49	0
Reach-1	174	PF 1	111	2616.71	2616.7		544.02	503.93	0
Reach-1	173	PF 1	111	2614.7	2614.93	1.73	56.27	434.26	0.9
Reach-1	172	PF 1	111	2613.41	2614.11	0.36	130.03	672.84	0.26
Reach-1	171	PF 1	111	2612.24	2612.83	6.61	16.92	238.1	4.34
Reach-1	170	PF 1	111	2611.75	2612	1.71	45.83	237.6	0.86
Reach-1	169	PF 1	111	2610.16	2610.53	2.35	47.22	270.68	0.99
Reach-1	168	PF 1	111	2608.6		2.64	42.12		
Reach-1	167	PF 1	111	2606.95		2.99	37.14		
Reach-1		PF 1	111			2.87	39.25		
Reach-1		PF 1	111			0.06	549.62		

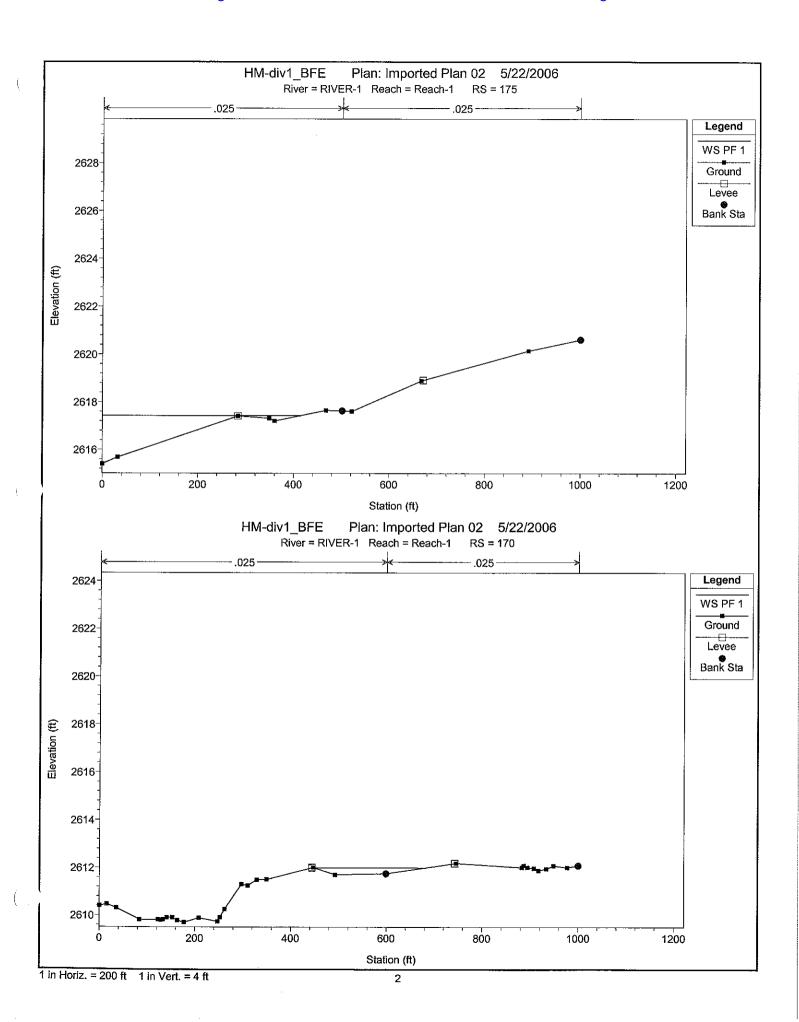
	HEC-RAS Plan:	Imported	Pla River:	RIVER-1	Reach: Re	ach-1 Pro	file: PF 1	
Reach	River Sta Profile							Froude # Chi
Reach-1	164 PF 1	111		2603.82	10.15	11.24	42.66	3.4
Reach-1	163 PF 1	111		2602.33		624.87	532.46	
Reach-1	162 PF 1	111		2600.69		531.59	405.8	
Reach-1	161 PF 1	111		2599.46		13.08	215.65	
Reach-1	160 PF 1	111		2598.12		71.58	264.79	
Reach-1	159 PF 1	111		2597.41	2.4	47.88	281.59	and the second s
Reach-1	158 PF 1	111		2595.74		442.03	508.11	0.05
Reach-1	157 PF 1	111		2594.65		33.01	94.89	1.01
Reach-1	156 PF 1	111	2590.9	2593.68		47.85	92.31	0.54
Reach-1	155 PF 1	111	2591.14	2592.31	2.42	33.82	100.35	
Reach-1	154 PF 1	111	2589.5			36.12	145.65	
Reach-1	153 PF 1	111	2587.4	2589.92	2.29	37.32	103.25	
Reach-1	152 PF 1	111	2586.67	2587.63	4	29.37	67.14	1.02
Reach-1	151 PF 1	111	2584.72	2585.67	5.97	18.27	39.27	1.56
Reach-1	150 PF 1	111	2583.26	2584.53	5.36	21.56	34.16	1.15
Reach-1	149 PF 1	111	2581.99	2582.5		14.07	23.23	0
Reach-1	148 PF 1	111	2579.9	2581.44	2.76	43.27	59.84	0.54
Reach-1	147 PF 1	111	2579.27	2580.19	4.01	26.9	39.6	0.88
Reach-1	146 PF 1	111	2578.07	2579.2	4.36	25.89	47.66	1.03
Reach-1	145 PF 1	111	2576.23	2577.75	1.93	45.7	52.35	0.43
Reach-1	144 PF 1	111	2575.61	2576.94	4.55	24.01	35.16	0.98
Reach-1	143 PF 1	111		2575.56	1.99	21.67	43.96	0.96
Reach-1	142 PF 1	111	2572.94	2574.03	8.54	14.73	33.35	2.04
Reach-1	141 PF 1	111	2571.25	2573.14	4.85	23.74	34.22	1
Reach-1	140 PF 1	111	2570.41	2572.35	1.24	39.54	45.71	0.42
Reach-1	139 PF 1	111	2570.46	2571.64	4.17	23.11	32.25	
Reach-1	138 PF 1	111	2567.98	2570.63	6.4	17.34	26.86	1.4
Reach-1	137 PF 1	111	2567.48	2569.51	4.87	25.96	50.49	0.98
Reach-1	136 PF 1	111	2566.92	2568.85	3.55	30.9	47.5	0.78
Reach-1	135 PF 1	111	2566.33	2567.61	3.63	32.86	48.16	0.73
Reach-1	134 PF 1	111	2565.87	2566.12	1.6	31.04	76.44	0.79
Reach-1	133 PF 1	111	2564.91	2564.85		54.57	44.77	0
Reach-1	132 PF 1	111	2563.7	2564.48	3.33	31.89	82.45	0.95
Reach-1	131 PF 1	111	2561.4	2562.38	6.97	18.04	54.22	1.92
Reach-1	130 PF 1	111	2560.4	2561.41	3.09	33.13	70.33	0.84
Reach-1	129 PF 1	111		2560.06	5.21	22.16	27.95	
Reach-1	128 PF 1	111	2558.14	2559.1	1.58	43.97	47.36	
Reach-1	127 PF 1	111	2556.93	2558.02	4.32	24.2	35.69	0.96
Reach-1	126 PF 1	111	2556.45	2557.53	2.98	40.63	62.9	
Reach-1	125 PF 1	111	2555.89	2556.46	2.93	31.93	87.29	
Reach-1 Reach-1	124 PF 1 123 PF 1	111	2554.52	2555.5	1.76	64.57	117.53	
Reach-1	123 PF 1	111	2554.09	2554.11	0.26	26.56	49.2	0.5
Reach-1	122 PF 1 121 PF 1	111	2554.18	2553.54	0.70	54.07	81.6	0
Reach-1	121 PF 1 120 PF 1	111 111	2552.59	2553.04	2.73	37.62	137.84	0.97
Reach-1	120 PF 1 119 PF 1		2551.8	2552.25	1.34	54.72	132.99	0.48
Reach-1	118 PF 1	111	2550.8	2551.57	3.01	37.18	136.19	1.01
Reach-1	116 PF 1 117 PF 1	111	2549.9	2550.17	3.22	26.12	131.75	1.54
Reach-1	117 PF 1 116 PF 1	111 111	2548.51 2547.17	2549.2	2.54	44.58	233.1	1
Reach-1	115 PF 1	111	2547.17	2548.43	0.76	32.91	94.03	0.67
i Neath 1	HOFF	111	2545.7	2547.29	0.3	373.83	529.14	0.06

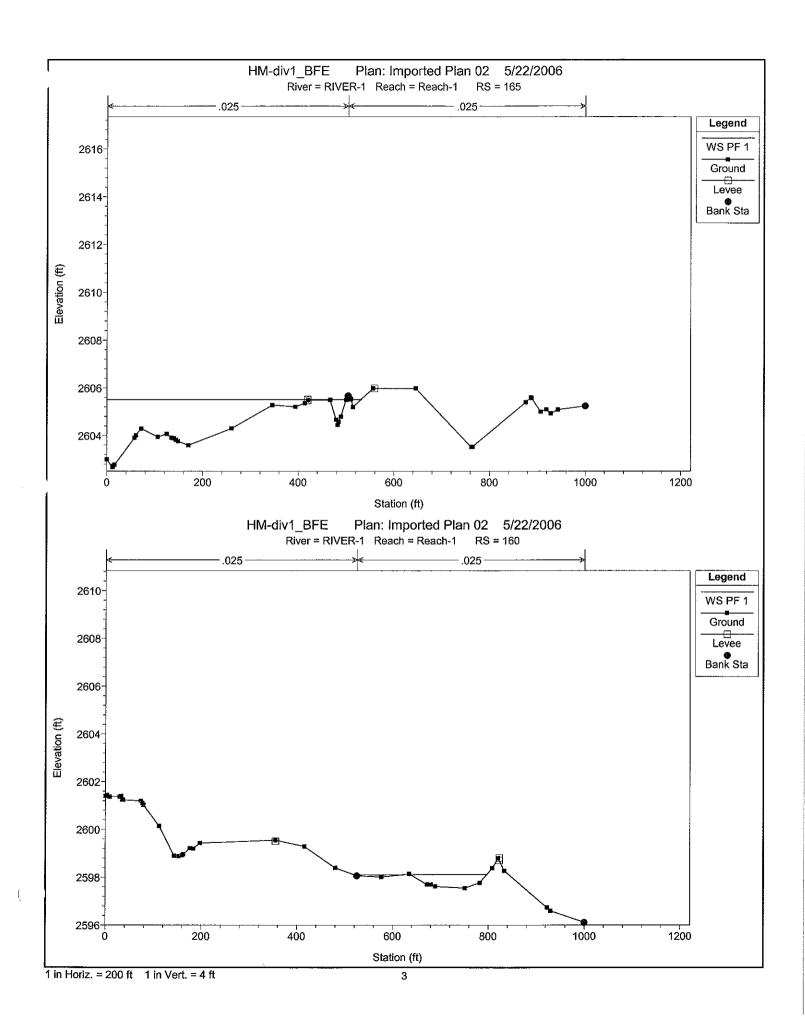
	HEC-RAS	Plan: I	mnorted	Pla River:	PIVER_1	Reach: Re	ach 1 Dra	file: PF 1	
Reach						Val Chri	Flow Area	Ton Width	Froude # Chl
Reach-1		PF 1	111				602.9	581.74	
Reach-1		PF 1	111				12.51	125.53	0.03
Reach-1		PF 1	111		2544.94 2543.61	0.57	203.91	416.38	0 0.13
Reach-1		PF 1	111				11.25	74.48	4.48
Reach-1		PF 1	111		2540.67		55.11	141.64	4.46 0.57
Reach-1		PF 1	111				32.28	89.68	1.01
Reach-1		PF 1	111				32.36	95.53	1.01
Reach-1		PF 1	111	2536.81	2537.78		41.76	99.9	0.68
Reach-1		PF 1	111			1.88	44.26	86.13	0.55
Reach-1	105	PF 1	111				33.28	90.07	0.85
Reach-1		PF 1	111				50.68	129.58	0.54
Reach-1	103	PF 1	111				42.65	190.43	0.97
Reach-1	102	PF 1	111	2532.2			49.35	149.02	0.69
Reach-1		PF 1	111	2531.57	2532	2.43	42.14	181.68	0.93
Reach-1	100	PF 1	111	2531	2531.22	0.87	71.52	280.4	0.46
Reach-1	99	PF 1	111	2529.46	2529.99	2.96	36.1	120.97	0.98
Reach-1		PF 1	111	2528.75	2529.06	0.41	172.66	533.65	0.18
Reach-1		PF 1	111	2526.4		7.73	14.36	57.56	2.73
Reach-1		PF 1	111	2524.8		0.2	557.46	471.79	0.03
Reach-1		PF 1	111	2523.46		0.17	653.46	432.15	0.02
Reach-1		PF 1	111	2522.24			14.31	67.07	0
Reach-1		PF 1	111	2520.7	2523.55	0.17	663.46	402.71	0.02
Reach-1		PF 1	111	2519.5		0.12	964.25	566.84	0.01
Reach-1		PF 1	111	2519.05		9.77		75.43	4.48
Reach-1		PF 1	111	2518.26		0.26	429.78	473.93	0.05
Reach-1		PF 1	111	2518.3	2519.46	8.78	12.73		4.14
Reach-1		PF 1	111	2516.92	2518.52	1.18	74.7	209.78	0.4
Reach-1		PF 1	111	2513.83	2517.71		38.34	152.55	. 0
Reach-1		PF 1	111	2512.36	2516.33	0.14	773.82	532.91	0.02
Reach-1		PF 1	111	2512.3	2514.61	10.04	11.06	121.68	5.87
Reach-1 Reach-1		PF 1 PF 1	111 111	2511.2	2513.22	1.83	60.78	182.22	0.56
Reach-1		PF 1	111	2510.08 2510.34	2513.25	0.19	608.17	580.56	0.03
Reach-1		PF 1	111	2510.34 2509.07	2511.78	2.47	44.98	242.5	1.01
Reach-1		PF 1	111	2509.07 2507.88	2510.67 2509.29	0.52	211.56	388.94	0.13
Reach-1		PF 1	111	2507.66	2509.29	7.46 0.25	12.79	153.94	4.65
Reach-1		PF 1	111	2505.46	2507.79 2506.68	8.04	448.42 13.81	514.75	0.05
Reach-1		PF 1	111	2504.29	2506.08	2.73	41.61	77.81 117.78	3.36 0.79
Reach-1		PF 1	111	2502.72	2505.07	2.73	38.19	136.89	0.79
Reach-1		PF 1	111	2500.9	2503.07	1.75	43.22	204.95	0.96
Reach-1		PF 1	111	2500.9	2503.77	3.66	27.62	204.95	2.18
Reach-1		PF 1	111	2499.41	2501.03	2.55	43.51	214.65	2.10
Reach-1		PF 1	111	2497.77	2500.33	۷.00	48.68	119.34	0
Reach-1		PF 1	111	2496.18	2499.5	3.25	34.29	104.11	0.99
Reach-1		PF 1	111	2495.3	2498.55	0.17	665.33	410.04	0.99
Reach-1		PF 1	111	2494	2497.78	0.17	654.43	423.14	0.02
Reach-1		PF 1	111	2492.99	2496.88	4.37	16.35	117.11	2.69
Reach-1		PF 1	111	2493.36	2496.05	0.83	51.59	143.71	0.48
Reach-1		PF 1	111	2491.74	2495.27	1.66	35.43	110.83	0.79
Reach-1		PF 1	111	2491.84	2494.56	1.76	51.74	163.62	0.63
			•		,,,,,,,		31.1.4	. 50.02	0.00

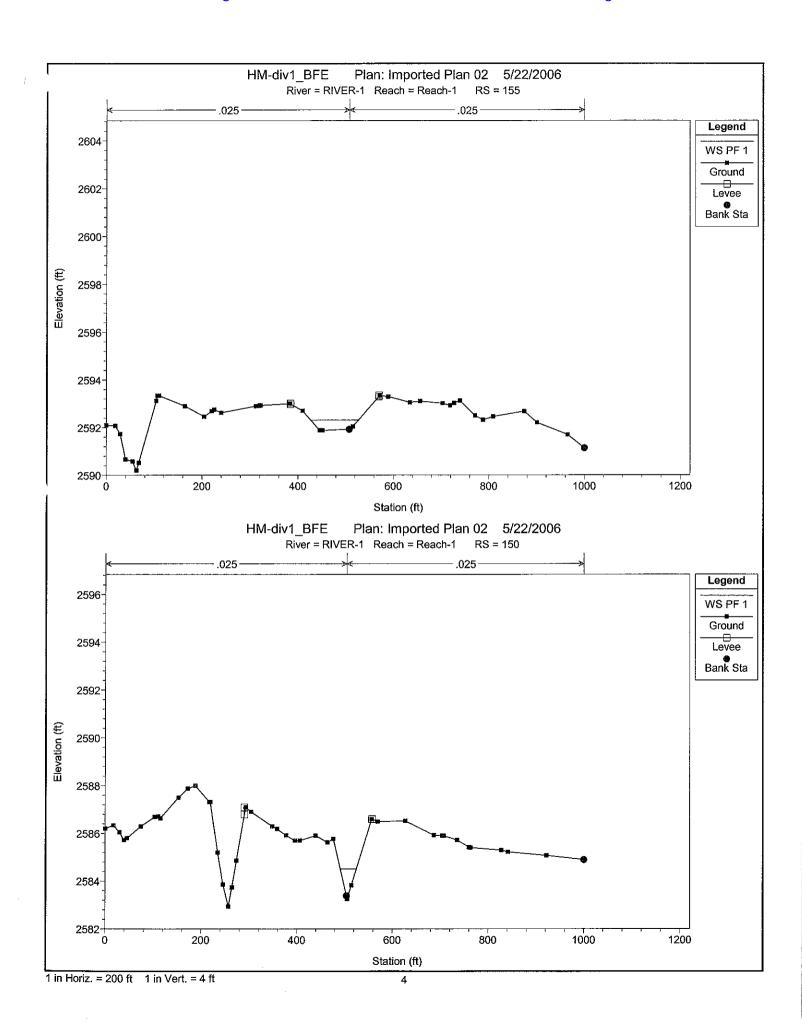
	HEC-RAS Plan: Imp	orted	Pla River	RIVER-1	Reach: Re	ach_1 Dro	file: PF 1	
Reach	River Sta Profile Q							Froudo # Chl
Reach-1	64 PF 1	111		2493.64				
Reach-1	63 PF 1	111	2491.72	2493.04	1.1	49.9 42.67	145.37	0.53
Reach-1	62 PF 1	111	2489.95			42.67 45.64	209	0.70
Reach-1	61 PF 1	111	2486	2490.04		55.69	148.22 187.6	0.79
Reach-1	60 PF 1	111	2485.63	2489.19		36.76	125.87	0.6 0.72
Reach-1	59 PF 1	111	2485	2488.7		597.85	568.19	0.72
Reach-1	58 PF 1	111	2484.92	2487.19		11.86	114.84	4.17
Reach-1	57 PF 1	111	2484.02	2485.99		38.63	153.89	1
Reach-1	56 PF 1	111	2483.24	2484.8		61.78	151.57	0.5
Reach-1	55 PF 1	111	2482.45	2483.92			83.48	0.7
Reach-1	54 PF 1	111	2480.1	2482.18		20.98	100.76	2.05
Reach-1	53 PF 1	111	2479.27	2481.47	3.04	36.4	131.18	1.02
Reach-1	52 PF 1	111	2478.6	2480.71	1.55		146.69	0.54
Reach-1	51 PF 1	111	2478.21	2479.04	2.13	31.74	109.84	0.92
Reach-1	50 PF 1	111	2476.66	2478.09		39.92	159.06	0.74
Reach-1	49 PF 1	111	2475.28	2477.12		296.51	596.66	0.09
Reach-1	48 PF 1	111	2469.72	2475.37	9.14	11.1	43.42	3.4
Reach-1	47 PF 1	111	2467.84	2474.18	4.4	25.03	43.49	1.03
Reach-1	46 PF 1	111	2466.59	2472.29	7.63	15.87	34.74	1.85
Reach-1	45 PF 1	111	2465.8	2471.16	4.15	26.83	49.16	0.99
Reach-1	44 PF 1	111	2464.11	2468.96	3.31	11.48	25.86	1.9
Reach-1	43 PF 1	111	2464.18	2467.98		23.77	34.29	0
Reach-1	42 PF 1	111	2464.1	2465.6	4.5	26.87	55.85	1.07
Reach-1	41 PF 1	111	2462.15	2462.91	6.73	16.48	56.41	2.2
Reach-1	40 PF 1	111	2461.76	2462.67	3.44	32.69	92.82	1.01
Reach-1	39 PF 1	111	2460.7	2461.59	1.68	61.18	112.83	0.42
Reach-1	38 PF 1	111	2460.2	2461.04	2.31	39.11	78.49	0.65
Reach-1	37 PF 1	111	2459.7	2460.37	2.19	37.36	100.46	0.76
Reach-1	36 PF 1	111	2459.4	2459.31		28.07	58.03	0
Reach-1	35 PF 1	111	2458.21	2458.77	1.55	45.75	112.76	0.53
Reach-1	34 PF 1	111	2456.31	2457.88	2.85	36.87	117.16	0.89
Reach-1	33 PF 1	111	2456.1	2456.8	3.37	33.86	86.2	0.93
Reach-1	32 PF 1	111	2456.37	2456.43	0.51	37.72	92.96	0.52
Reach-1	31 PF 1	111	2454.89	2455.86	2.44	48.1	114.68	0.64
Reach-1	30 PF 1	111	2454.69	2455.49	1.3	65.17	192.65	0.47
Reach-1	29 PF 1	111	2453.96	2454.63	2.52	38.4	156.59	0.99
Reach-1	28 PF 1	111	2453.19	2453.98	3.06	43.89	126	0.71
Reach-1	27 PF 1	111	2453.06	2453.51	1.6	64.67	241.71	0.57
Reach-1	26 PF 1	111	2452.64	2452.64		40.88	182.1	0
Reach-1	25 PF 1	111	2451.82	2452.06	2.3	31.82	176.98	1.21
Reach-1	24 PF 1	111	2450.77	2451.06	2.4	39.67	170.06	0.98
Reach-1	23 PF 1	111	2447.7	2450.21	2.55	48.87	151.47	0.71
Reach-1	22 PF 1	111	2447.2	2449.46	3.14	38.32	105.79	0.8
Reach-1	21 PF 1	111	2448.1	2449.22	1.36	84.45	219.35	0.38
Reach-1	20 PF 1	111	2447.59	2448.74	2.27	43.07	211.46	0.96
Reach-1	19 PF 1	111	2446.9	2447.83	1.83	63.41	160.47	0.49
Reach-1 Reach-1	18 PF 1	111	2446.17	2447.24	2.53	40.28	149.29	0.9
Reach-1	17 PF 1	111	2445.55	2446.85	1.63	69.91	169.29	0.44
	16 PF 1	111	2444.94	2445.97	3.46	31.69	87.56	1.01
Reach-1	15 PF 1	111	2443.26	2444.64	2.12	26.44	36.91	0.61

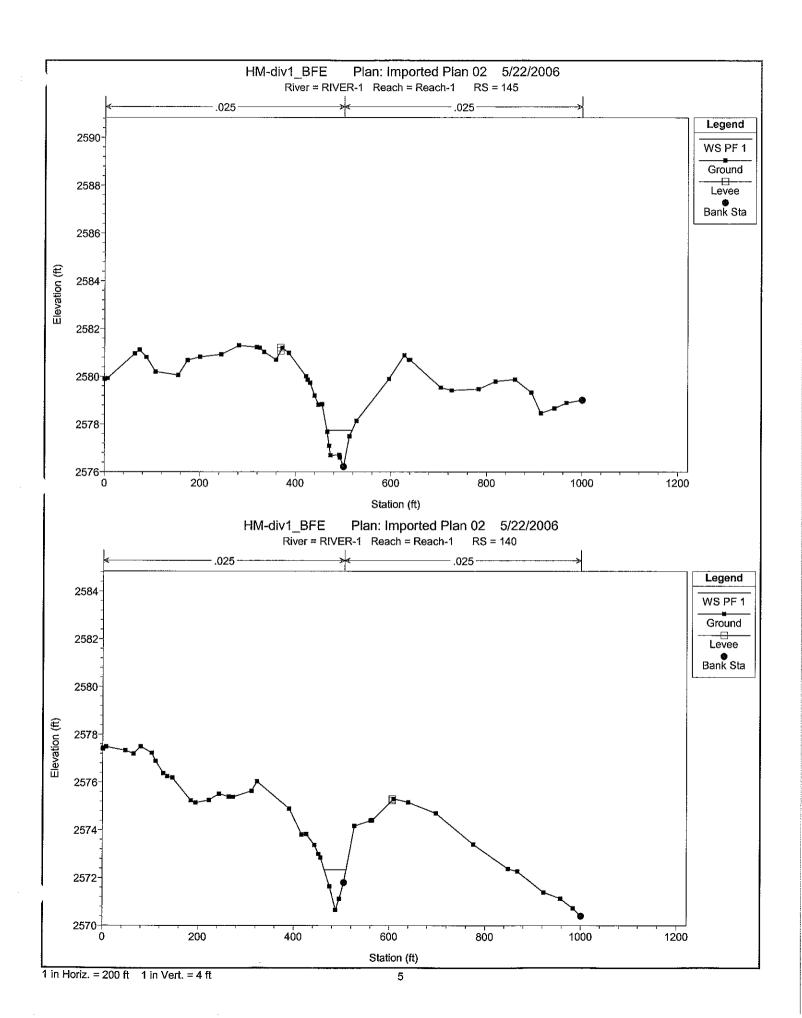
	HEC-RAS Plan: I			RIVER-1	Reach: Re	ach-1 Pro	file: PF 1	
Reach	River Sta Profile	Q Total	Min Ch El	W.S. Elev	Vel Chnl	Flow Area	Top Width	Froude # Chl
Reach-1	14 PF 1	111	2442.03	2443.4	6.17	16.24	20.61	1.34
Reach-1	13 PF 1	111	2442.1	2443.47	1.5	47.6	51.08	0.37
Reach-1	12 PF 1	111	2440.8	2442.44	3.55	23.71	34.27	0.91
Reach-1	11 PF 1	111	2441.9	2442.18	0.75	44.81	73.44	0.41
Reach-1	10 PE 1	111	2440.39	2441.53	1.98	43.03	61.11	0.43
Reach-1	9 PF 1	111	2439.92	2440.54	1.86	31.5	46.28	0.6
Reach-1	8 PF 1	111	2439.1	2439.76	3.7	25.4	41.61	0.94
Reach-1	7 PF 1	111	2437.5	2438.04	8.55	11.88	25.86	2.36
Reach-1	6 PF 1	111	2437.28	2438.14	2.32	28.54	37.76	0.65
Reach-1	5 PF 1	111	2436.62	2437.39	2.93	24.89	36.01	0.81
Reach-1	4 PF 1	111	2435.2	2436.06	6.43	17.83	26.84	1.35
Reach-1	3 PF 1	111	2434.2	2435.98	2.84	33.11	26.5	0.5
Reach-1	2 PF 1	111	2434.1	2435.51	2.47	35.6	26.19	0.44
Reach-1	1 PF 1	111	2433.5	2434.5	4.12	22.57	27.16	0.89

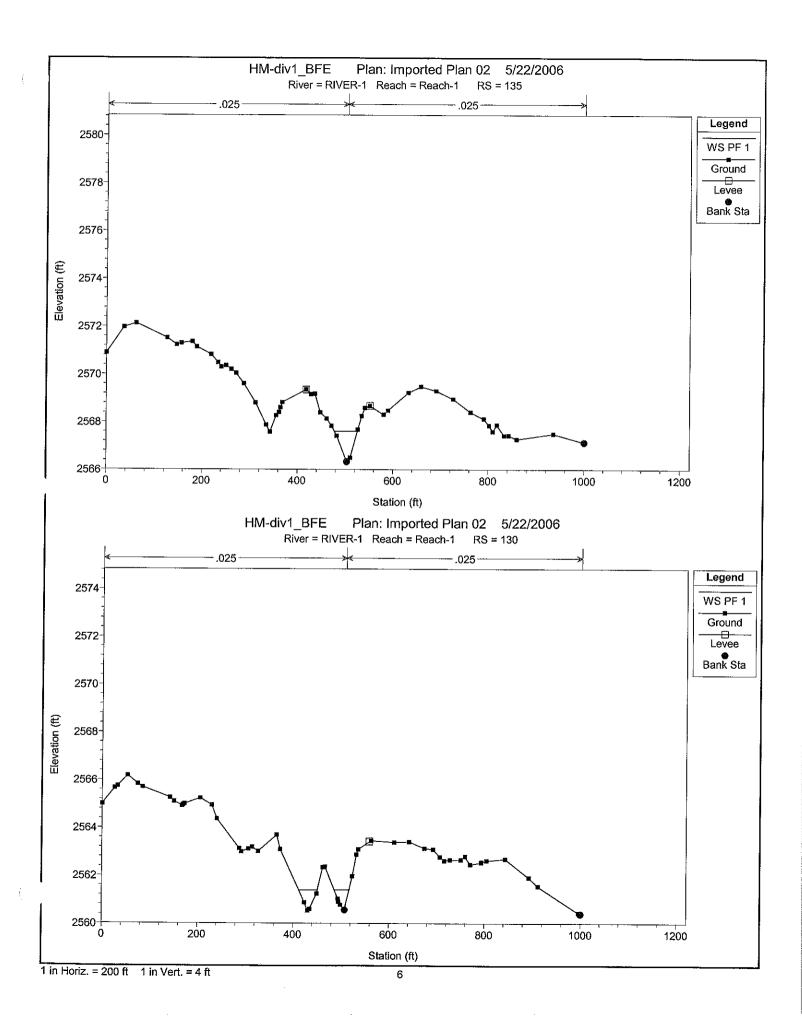


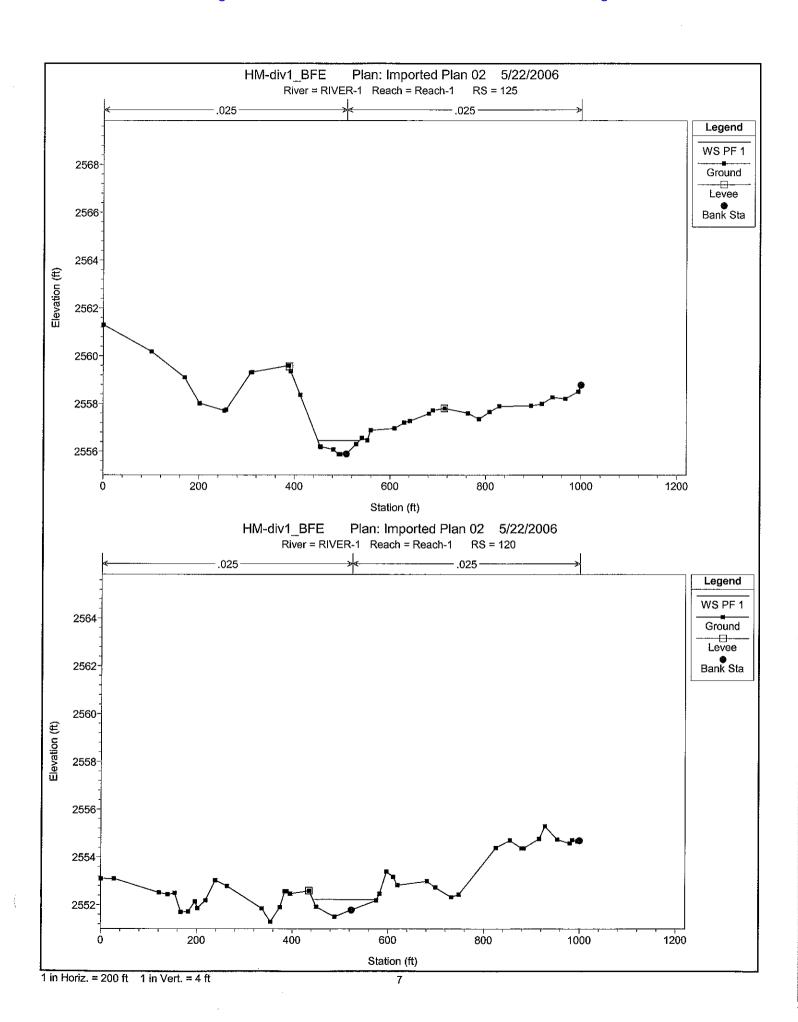


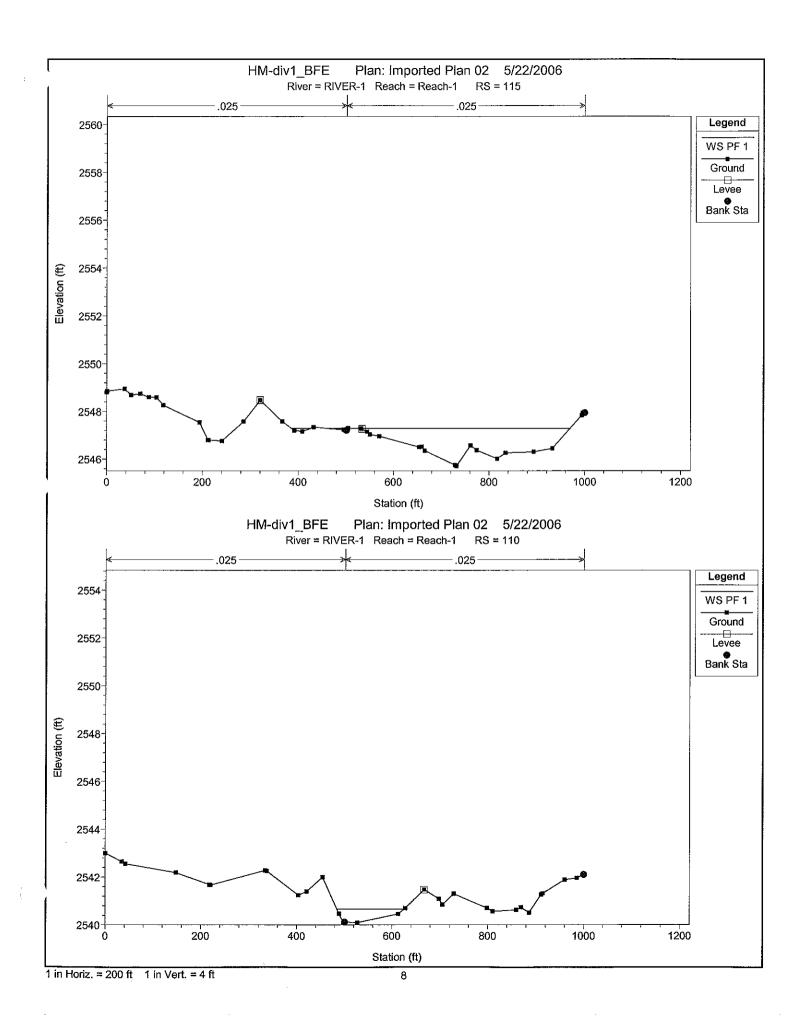


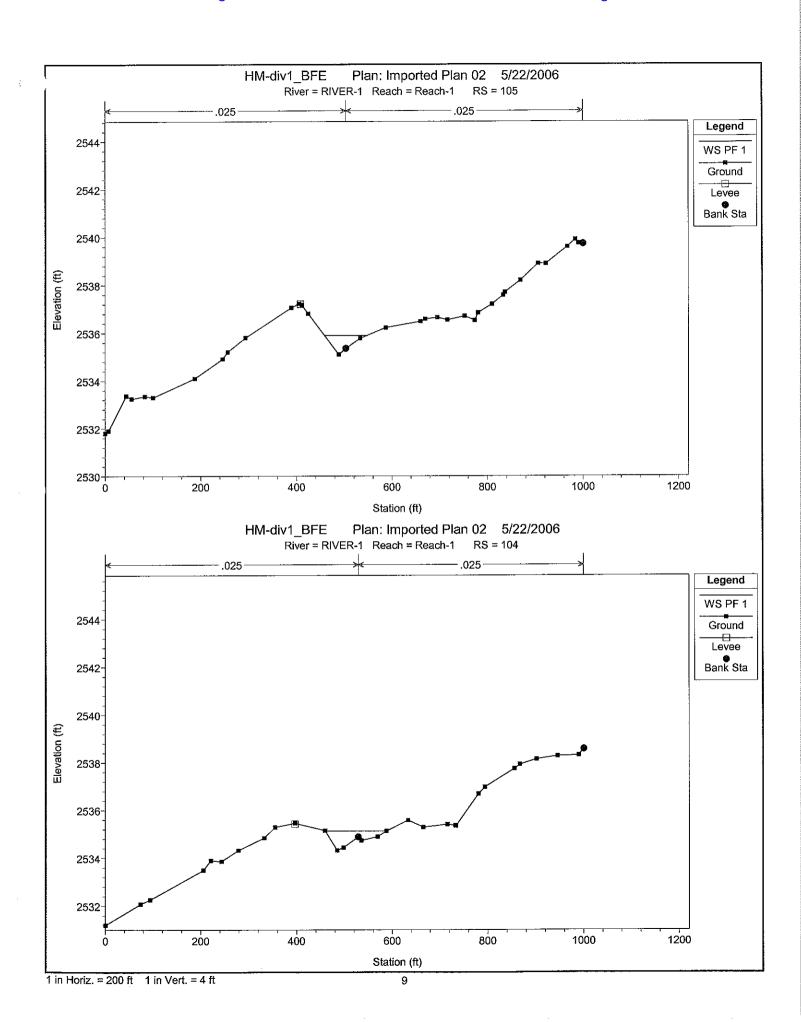


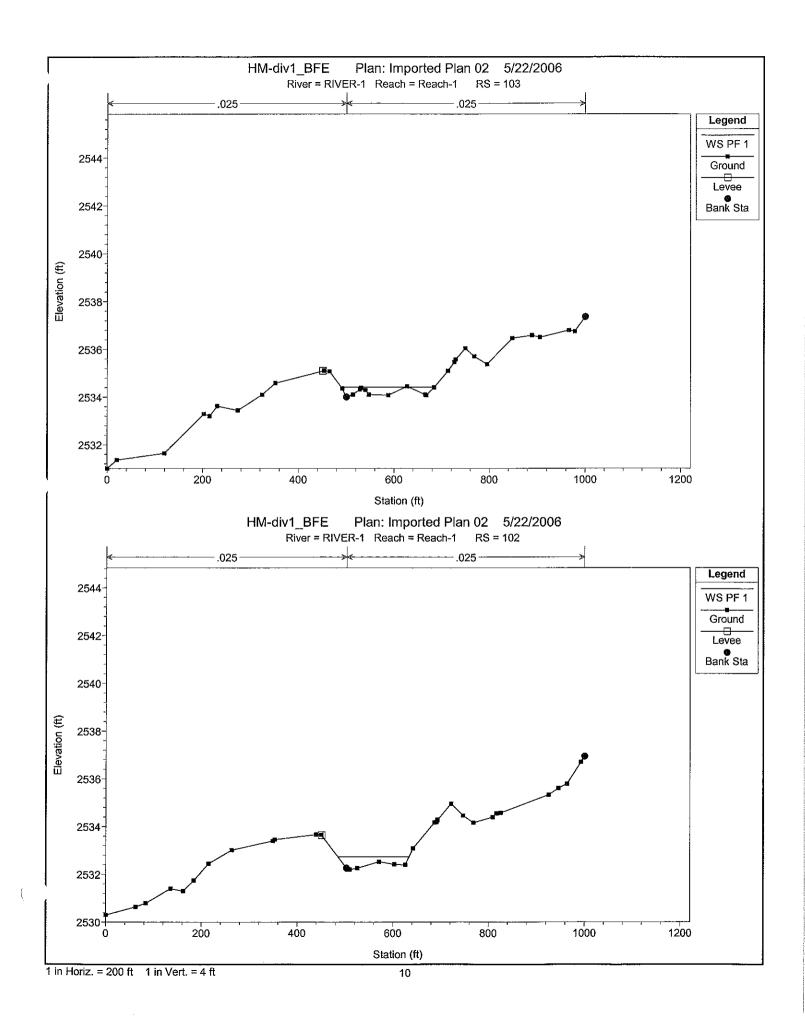


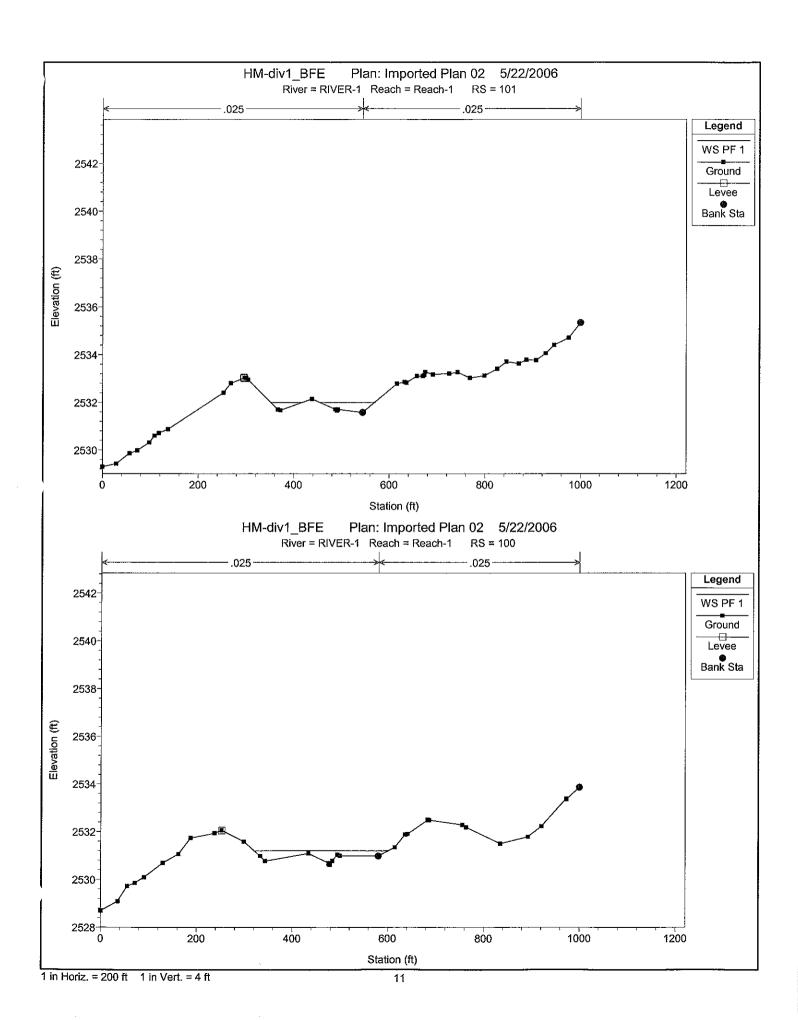


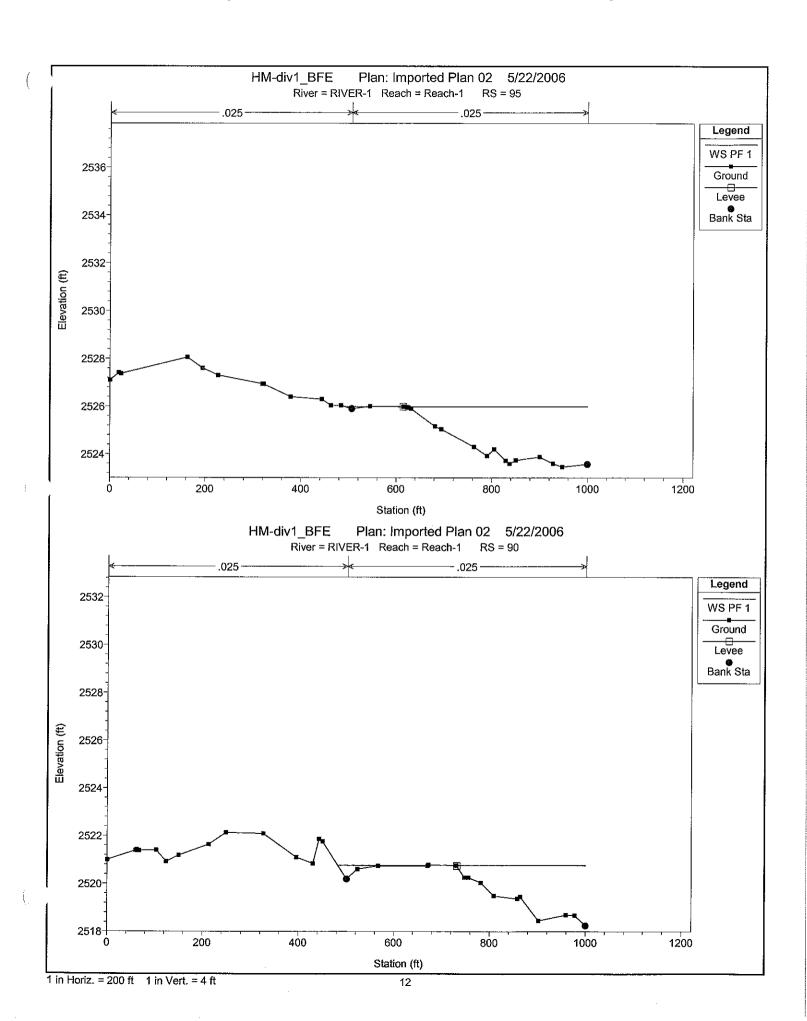


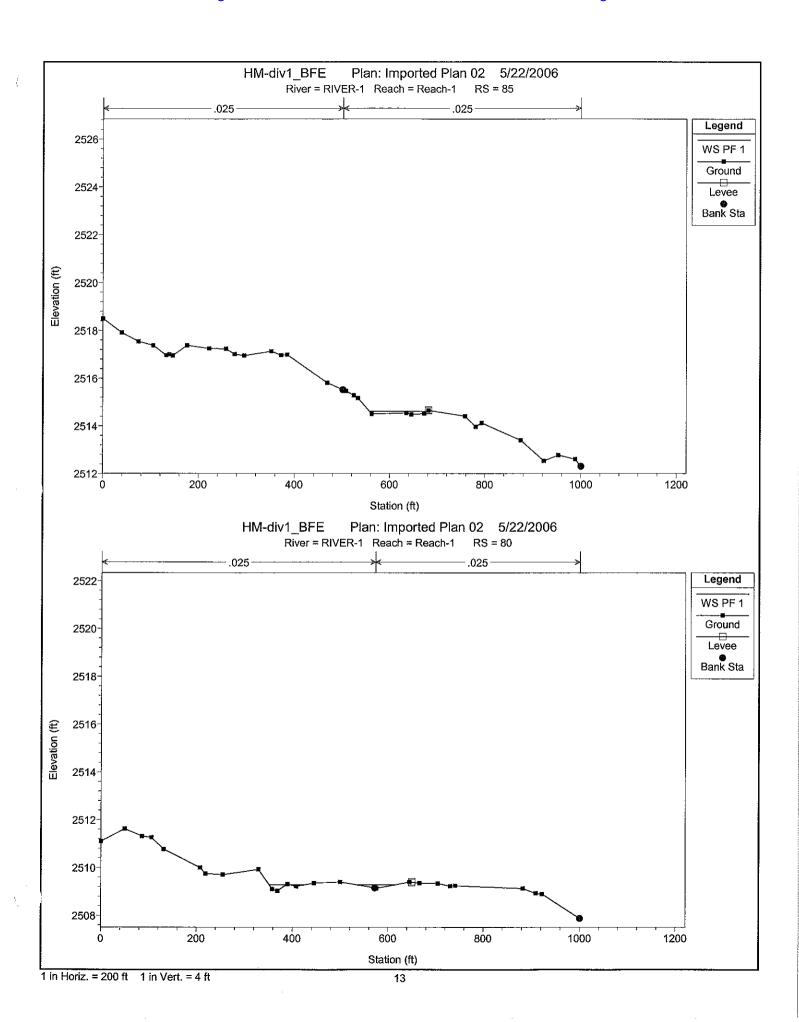


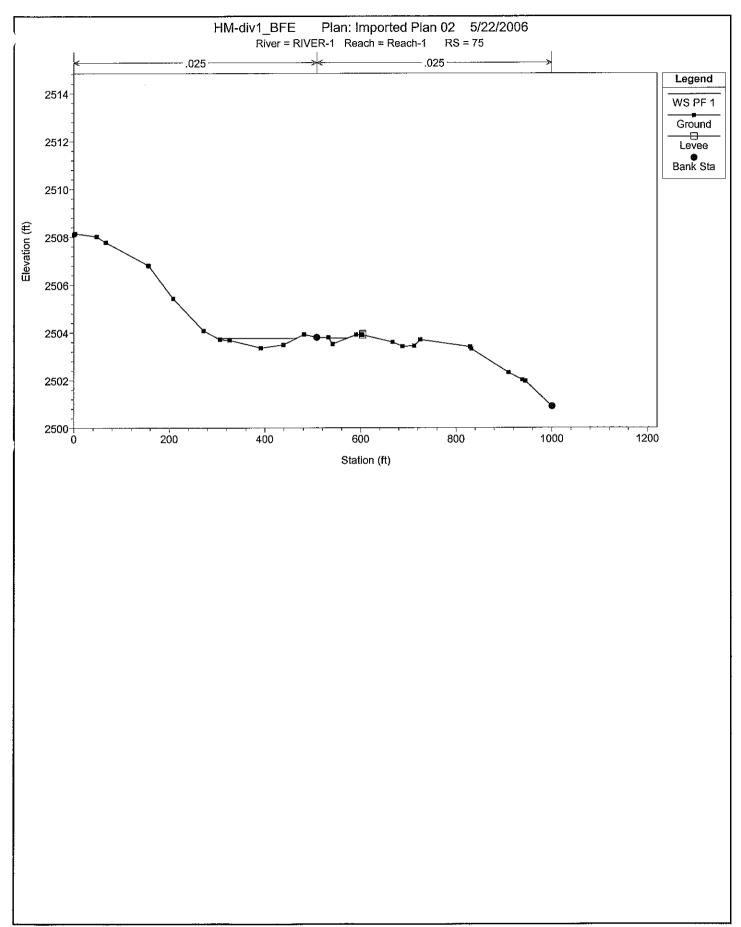






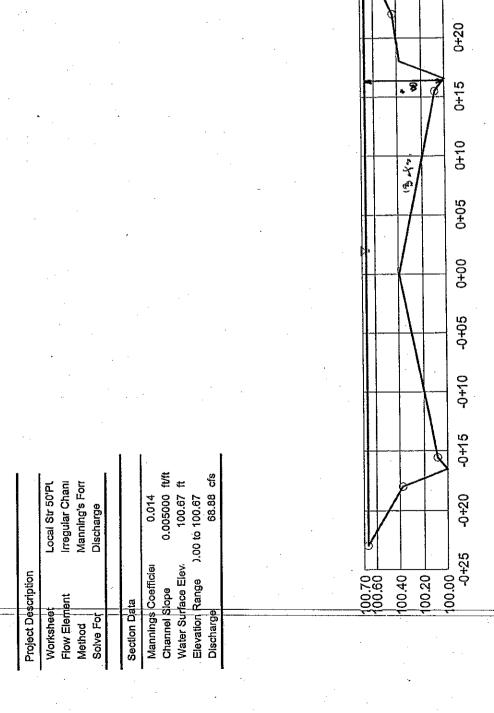






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Cross Section
Cross Section for Irregular Channel



Project Engineer: Information Services FlowMaster v7.0 [7.0005] Page 1 of 1

V:10.0 H:1 NTS

0+30

0+25

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Table Rating Table for Irregular Channel

Project Description	
Worksheet	Local Str 50'Pl
Flow Element	Irregular Chanı
Method	Manning's Forr
Solve For	Discharge

Input Data

Water Surface Elev. 00.67 ft

Options

Current Roughness Methoved Lotter's Method Open Channel Weighting wed Lotter's Method Closed Channel Weightins Horton's Method

Attribute	Minimum	Maximum	Increment
Channel Slope (ft/ft)	0.005000	0.020000	0.000100

Channel Slope (ft/ft)	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft²)	Wetted Perimeter (ft)	Top Width (ft)
	00.00	- 272	18.5	50.12	50.00
0.005000	68.88	3.73	18.5	50.12	50.00
0.005100	69.57	3.76	18.5	50.12	50.00
0.005200	70.25	3.80	18.5	50.12	50.00
0.005300	70.92	3.84	18.5	50.12	50.00
0.005400	71.59	3.87	18.5	50.12	50.00
0.005500	72.25	3.91	18.5	50.12	50.00
0.005600	72.90	3.94		50.12	50.00
0.005700	73.55	3.98	18.5	50.12	50.00
0.005800	74.19	4.01	18.5		50.00
0.005900	74.83	4.05	18.5	50.12 50.12	50.00
0.006000	75.46	4.08	18.5	50.12	50.00
0.006100	76.09	4.12	18.5		50.00
0.006200	76.71	4.15	18.5	50.12	50.00
0.006300	77.32	4.18	18.5	50.12	
0.006400	Į.	4.22	18.5	50.12	50.00
0.006500	1	4.25	18.5		50.00
0.006600	1	4.28	18.5		50.00
0.006700		4.31	18.5		50.00
0.006800	1	4.35	18.5	Į.	50.00
D.006900	1	1 1	18.5		50.00
ე.007000		4.41	18.5	1	
0.007100	1	I I	18.5	Į.	
0.007200	ì	[]	18.5	1	1
0.007300	1	1	18.5		1
0.007400	1		18.5	1	'
0.007500	1	1	18.5	1	1
D.007600		1	18.5	1	
0.007700	1		18.5	i	ļ
0.007800	i i	1	18.5	1 '	I
0.007900		i	18.5	1	1 :
0.008000	1	1	18.5	i ·	Į.
_ 0.008100		1	18.5		
0.008200	1		18.5	1	
0.008300	88.75	4.80	18.5	50.12	50.00

Project Engineer: Information Services

Table Rating Table for Irregular Channel

_												
Cr	nannel	Disc	harge		locity		low		etted		Γορ <i>l</i> idth	
	Slope (ft/ft)	- (4	cfs)	. (ft/s)	1	Area (ft²)	Per	imeter (ft)		(ft)	
-	` 		20.00		4.02		18.5	-	50.12		50.00	
i	08400		89.28		4.83 4.86		18.5		50.12		50.00	
1	08500		89.81		4.89		18.5	ļ	50.12		50.00	
1	008600		90.34 90.87		4.92		18.5	ļ	50.12	Į	50.00	
	08700		91.39		4.94		18.5		50.12		50.00	
s	008800 008900	İ	91.90		4.97	ł	18.5	i	50.12		50.00	
	009000	Ì	92.42	1	5.00		18.5	ł	50.12	Ì	50.00	ļ
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